

### Gene Screen

The invention relates to a screen for the identification of genes which show regulated expression in response to carbon source utilisation.

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Colorectal cancer is a cancer which occurs in the large intestine and rectum. The colon can be divided into effectively four sections; the ascending colon; the transverse colon; the descending colon; and the sigmoid colon. Most colorectal cancers arise in the sigmoid colon and develop from "polyps" which can grow for several years before becoming cancerous. The early detection of these pre-cancerous growths is obviously desirable since removal of the polyps is a very effective means to stem the progress of disease.

There are various types of colorectal cancer. Most cancers of this type are adenocarcinomas which are malignant growths which begin in the epithelial cells which line the colon and rectum. Other cancers of the colon and rectum include gastrointestinal stromal tumours and lymphomas. In some examples the patient can be asymptomatic and for this reason it is important that screening is undertaken to identify those patients in which pre-cancerous polyps are forming. However, some patients do present with symptoms and these include rectal bleeding, diarrhoea, constipation, abdominal pain, and general weakness.

As mentioned above, regular screening is by far the most effective way of controlling this disease since removal of pre-cancerous polyps by surgery can effectively cure any disease before it is initiated. Currently, diagnostic tests include the use of colonoscopy, which allows a doctor to examine the rectum and colon; faecal blood analysis to check for any bleeding from the bowel and rectal area although this test is not directly diagnostic for cancerous lesion in its own right; and sigmoidoscopy which is similar to colonoscopy but only investigates the lower bowel area. Typically, patients with a family history of colorectal cancer can be expected to have

a colonoscopy every 5 years or so and a blood stool check on a yearly basis from about the age of 40.

5 The treatment of colorectal cancer usually involves invasive surgery to remove polyps and/or malignant growths. If the cancer has developed beyond the polyp stage then more extensive surgery is required which can result in removal of part of the bowel and surrounding lymph nodes. In the situation where a cancer necessitates extensive surgery a colostomy stoma may be required, at least for a period, to allow the bowel to recover from surgery. Surgery in the rectal region is more complicated  
10 and is largely dependent on how far the disease has progressed. In some cases the surgery can damage nerves which control sexual and urinary functions. In advanced stage colorectal cancers metastatic lesions may require removal and in about 15% of cases the lesions are in the liver which requires removal of large parts of the liver. The surgical removal of polyps and/or cancerous growths leads to a good prognosis  
15 for patients. In some cases surgery is followed by a course of chemotherapy (for colon cancer) and chemotherapy and radiation therapy (rectal cancer) to remove any cancer cells not detected during surgery. The chemotherapeutic agents typically used to treat colorectal cancer include 5-fluorouracil, leucovorin, irinotecan and capecitabine.

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It is apparent that the early detection of cells which are pre-cancerous is highly desirable since in most cases surgery to remove these cells results in a very good prognosis for patients. Diagnostic tests which use the detection of cancer markers as an early indicator of cancer are known in the art.

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For example, EP1355149 describes gene expression profiles from colorectal samples to provide a "finger print" expression profile as an indication of whether a patient is susceptible to the development of colorectal cancer or indeed if malignant growth has already been initiated. The disclosure in EP1355149 is directed to the use of  
30 microarrays to compare transformed and non-transformed tissue gene expression in a global sense.

WO02/059609 also describes a gene screen which utilises expression profiles in breast and colorectal cancer. A comparison is made between “normal” and “abnormal” samples in patients to provide a global picture of gene expression in these samples as an indicator of particular genes which are either over-expressed or abrogated between samples. Both EP1355149 and WO02/059609 take a shot gun approach to screening for target genes which can be used either as a diagnostic tool or as a target for the development of new chemotherapeutic agents.

- 10 The present invention provides a targeted screen for genes the expression of which may be altered in a response to carbon source. The invention makes use of the differences in expression profiles between normal and diseased tissue as a consequence of differences in metabolic state between cancer cells and normal cells due in part to carbon source utilisation by these respective cell types. The epithelial
- 15 cells which line the colon and rectum metabolise butyrate as a carbon source for energy transduction via glycolysis. The main carbon source utilised by tumour cells is glucose. Consequently, expression profiles between these cell types are different due to the differences in carbon source metabolism.
- 20 We have identified a large number of potential markers of colorectal cancer which have utility with respect to the early diagnosis of disease and as targets for the development of novel chemotherapeutic agents. Moreover, this assay has broader applicability to conditions resulting from dysfunction of the bowel (e.g colitis, ulcerative colitis, diversion colitis, Crohn’s disease and irritable bowel syndrome. In
- 25 addition the assay provides a screening tool for fibre consumption and as an assay for colon microflora functionality (the effectiveness of fermentation of specific fibres) .

According to an aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated first cell sample

30 comprising comparing the gene expression profiles between said first cell sample with a second reference cell sample wherein said first cell sample has been grown in

the presence of the carbon source butyrate, or a related carbon source from which butyrate is derived, either directly or indirectly, and comparing said expression profile with the expression profile in said second reference cell sample which has not been grown in the presence of butyrate, or said related carbon source.

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According to a further aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated biological sample comprising the steps of:

- i) providing
  - 10 a) a cell growth preparation comprising a first cell sample derived from at least one region of the colon; cell growth media; and a carbon source wherein said carbon source is butyrate; and
  - b) a cell growth preparation comprising a second cell sample derived from an equivalent region of the colon; cell growth media; and a
  - 15 carbon source which is not butyrate;
- ii) extracting nucleic acid from said first and second cell samples; and
- iii) comparing the gene expression profile in said first cell sample with the gene expression profile in said second cell sample.

20 In a preferred method of the invention said first and second cell samples are derived from the ascending colon.

In an alternative preferred method of the invention said first and second cell samples are derived from the transverse colon.

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In a further preferred method of the invention said first and second samples are derived from the descending colon.

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In a still further preferred method of the invention said first and second samples are derived from the sigmoid region of the colon. Preferably said cell samples are derived from the rectal region of the colon.



In a further preferred method of the invention said first and second cell samples comprise epithelial cells.

5 In a preferred method of the invention said carbon source which is not butyrate is glucose.

10 In a still further preferred method of the invention said nucleic acid molecule which shows altered expression is selected from the group as represented by the nucleic acid sequences shown in Table 1, or nucleic acid molecules which hybridise to the sequences presented Table 1. Preferably said nucleic acid molecules hybridise under stringent hybridisation conditions.

15 According to a further aspect of the invention there is provided a method for the detection of at least one nucleic acid molecule associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- 20 ii) contacting said sample with a ligand which binds at least one nucleic acid molecule as represented by the nucleic acid sequence selected from the group consisting of:
  - a) a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1;
  - 25 b) a nucleic acid molecule which hybridises to nucleic acid molecules as defined in (a);
  - c) a nucleic acid molecule that is degenerate as a consequence of the genetic code to the nucleic acid molecule represented in (a) and (b);
- 30 iii) detecting the presence of at least one nucleic acid molecule in said sample.

In a preferred method of the invention said animal is human.

In a further preferred method of the invention said colorectal cancer is  
5 adenocarcinoma.

In a preferred method of the invention said ligand is a nucleic acid molecule adapted to anneal to said nucleic acid molecule which is indicative of colorectal cancer.

10 It will be apparent to the skilled person that a number of nucleic acid based assay systems are available which can be adapted to detect nucleic acid molecules as hereindisclosed. For example quantitative polymerase chain reaction assays, *in situ* hybridisation, northern blots.

15 According to a further aspect of the invention there is provided a method for the detection of at least one polypeptide associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested;
- ii) contacting said sample with at least one ligand which ligand  
20 specifically binds at least one polypeptide encoded by a nucleic acid molecule as represented by the nucleic acid sequence shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue; and
- 25 iii) detecting the presence of at least one polypeptide in said sample.

In a preferred method of the invention said animal is human.

In a further preferred embodiment of the invention said ligand is an antibody,  
30 preferably a monoclonal antibody, or at least the effective binding part thereof.

Methods which utilise antibodies to detect the presence of a polypeptide in a biological sample are well known in the art and include ELISA's, western blot and immunofluorescence.

5 According to a further aspect of the invention there is provided the use of at least one polypeptide, or variant sequence thereof, encoded by a nucleic acid molecule(s) as represented by the nucleic acid sequences as shown in Table 1, as a target for the screening of agents which modulate the activity of said polypeptide.

10 According to a yet further aspect of the invention there is provided a method to screen for agents which modulate the activity of at least one gene associated with the initiation and/or progression of colorectal cancer comprising the steps of:

- 15 i) forming a preparation comprising at least one polypeptide wherein said polypeptide is encoded by a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue as represented by the amino acid sequences shown in Table 1, and at least one agent to be tested; and
- 20 ii) determining the activity of said agent with respect to activity of said polypeptide.

In a preferred method of the invention said polypeptide is expressed by a cell wherein said cell is transformed or transfected with said nucleic acid molecule. Preferably  
25 said nucleic acid molecule is part of a vector adapted for recombinant expression of said nucleic acid molecule. Preferably said vector is provided with a promoter which enables the expression of said nucleic acid molecule to be regulated.

In a preferred method of the invention said cell is derived from the colon, preferably  
30 said cell is an epithelial cell which lines said colon.

In a further preferred method of the invention said agent is an antibody, preferably a monoclonal antibody or modified antibody, or at least the effective binding part thereof.

- 5 Antibodies, also known as immunoglobulins, are protein molecules which usually have specificity for foreign molecules (antigens). Immunoglobulins (Ig) are a class of structurally related proteins consisting of two pairs of polypeptide chains, one pair of light (L) (low molecular weight) chain ( $\kappa$  or  $\lambda$ ), and one pair of heavy (H) chains ( $\gamma$ ,  $\alpha$ ,  $\mu$ ,  $\delta$  and  $\epsilon$ ), all four linked together by disulphide bonds. Both H and L chains  
10 have regions that contribute to the binding of antigen and that are highly variable from one Ig molecule to another. In addition, H and L chains contain regions that are non-variable or constant.

- The L chains consist of two domains. The carboxy-terminal domain is essentially  
15 identical among L chains of a given type and is referred to as the "constant" (C) region. The amino terminal domain varies from L chain to L chain and contributes to the binding site of the antibody. Because of its variability, it is referred to as the "variable" (V) region.

- 20 The H chains of Ig molecules are of several classes,  $\alpha$ ,  $\mu$ ,  $\sigma$ ,  $\alpha$ , and  $\gamma$  (of which there are several sub-classes). An assembled Ig molecule consisting of one or more units of two identical H and L chains, derives its name from the H chain that it possesses. Thus, there are five Ig isotypes: IgA, IgM, IgD, IgE and IgG (with four sub-classes based on the differences in the 'constant' regions of the H chains, i.e., IgG1, IgG2,  
25 IgG3 and IgG4). Further detail regarding antibody structure and their various functions can be found in, Using Antibodies: A laboratory manual, Cold Spring Harbour Laboratory Press.

In a preferred method of the invention said fragment is a Fab fragment.

In a further preferred method of the invention said antibody is selected from the group consisting of: F(ab')<sub>2</sub>, Fab, Fv and Fd fragments; and antibodies comprising CDR3 regions.

5 Preferably said fragments are single chain antibody variable regions (scFv's) or domain antibodies. If a hybridoma exists for a specific monoclonal antibody it is well within the knowledge of the skilled person to isolate scFv's from mRNA extracted from said hybridoma via RT PCR. Alternatively, phage display screening can be undertaken to identify clones expressing scFv's. Domain antibodies are the smallest  
10 binding part of an antibody (approximately 13kDa). Examples of this technology is disclosed in US6, 248, 516, US6, 291, 158, US6,127, 197 and EP0368684 which are all incorporated by reference in their entirety.

A modified antibody, or variant antibody and reference antibody, may differ in amino  
15 acid sequence by one or more substitutions, additions, deletions, truncations which may be present in any combination. Among preferred variants are those that vary from a reference polypeptide by conservative amino acid substitutions. Such substitutions are those that substitute a given amino acid by another amino acid of like characteristics. The following non-limiting list of amino acids are considered  
20 conservative replacements (similar): a) alanine, serine, and threonine; b) glutamic acid and asparatic acid; c) asparagine and glutamine d) arginine and lysine; e) isoleucine, leucine, methionine and valine and f) phenylalanine, tyrosine and tryptophan. Most highly preferred are variants which show enhanced biological activity.

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Preferably said antibody is a humanised or chimeric antibody.

A chimeric antibody is produced by recombinant methods to contain the variable region of an antibody with an invariant or constant region of a human antibody.

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A humanised antibody is produced by recombinant methods to combine the complementarity determining regions (CDRs) of an antibody with both the constant (C) regions and the framework regions from the variable (V) regions of a human antibody.

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Chimeric antibodies are recombinant antibodies in which all of the V-regions of a mouse or rat antibody are combined with human antibody C-regions. Humanised antibodies are recombinant hybrid antibodies which fuse the complementarity determining regions from a rodent antibody V-region with the framework regions from the human antibody V-regions. The C-regions from the human antibody are also used. The complementarity determining regions (CDRs) are the regions within the N-terminal domain of both the heavy and light chain of the antibody to where the majority of the variation of the V-region is restricted. These regions form loops at the surface of the antibody molecule. These loops provide the binding surface between the antibody and antigen.

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Antibodies from non-human animals provoke an immune response to the foreign antibody and its removal from the circulation. Both chimeric and humanised antibodies have reduced antigenicity when injected to a human subject because there is a reduced amount of rodent (i.e. foreign) antibody within the recombinant hybrid antibody, while the human antibody regions do not elicit an immune response. This results in a weaker immune response and a decrease in the clearance of the antibody. This is clearly desirable when using therapeutic antibodies in the treatment of human diseases. Humanised antibodies are designed to have less "foreign" antibody regions and are therefore thought to be less immunogenic than chimeric antibodies.

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In an alternative preferred method of the invention said agent is a polypeptide or a peptide. Preferably said polypeptide or peptide is modified.

In a preferred method of the invention said peptide is at least 6 amino acid residues in length. Preferably the length of said peptide/polypeptide is selected from the group

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consisting of: at least 7 amino acid residues; 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 amino acid residues in length. Alternatively the length of said peptide/polypeptide is at least 20 amino acid residues; 30; 40; 50; 60; 70; 80; 90; or 100 amino acid residues in length.

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It will be apparent to one skilled in the art that modification to the amino acid sequence of peptide agents could enhance the binding and/or stability of the peptide with respect to its target sequence. In addition, modification of the peptide may also increase the *in vivo* stability of the peptide thereby reducing the effective amount of peptide necessary to inhibit the activity of a target polypeptide. This would advantageously reduce undesirable side effects which may result *in vivo*. Alternatively or preferably, said modification includes the use of modified amino acids in the production of recombinant or synthetic forms of peptides. It will be apparent to one skilled in the art that modified amino acids include, by way of example and not by way of limitation, 4-hydroxyproline, 5-hydroxylysine, N<sup>6</sup>-acetyllysine, N<sup>6</sup>-methyllysine, N<sup>6</sup>,N<sup>6</sup>-dimethyllysine, N<sup>6</sup>,N<sup>6</sup>,N<sup>6</sup>-trimethyllysine, cyclohexylalanine, D-amino acids, ornithine. Other modifications include amino acids with a C<sub>2</sub>, C<sub>3</sub> or C<sub>4</sub> alkyl R group optionally substituted by 1, 2 or 3 substituents selected from halo (e.g. F, Br, I), hydroxy or C<sub>1</sub>-C<sub>4</sub> alkoxy. Modifications also include, by example and not by way of limitation, acetylation and amidation.

In a preferred embodiment of the invention said peptide sequence is acetylated. Preferably said acetylation is to the amino terminus of said peptide.

25 In a further preferred embodiment of the invention said peptide sequence is amidated. Preferably said amidation is to the carboxyl-terminus of said peptide.

It will also be apparent to one skilled in the art that peptides could be modified by cyclisation. Cyclisation is known in the art, (see Scott *et al* Chem Biol (2001), 8:801-815; Gellerman et al J. Peptide Res (2001), 57: 277-291; Dutta *et al* J. Peptide

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Res (2000), 8: 398-412; Ngoka and Gross J Amer Soc Mass Spec (1999), 10:360-363.

In a further preferred method of the invention said agent is nucleic acid molecule.

5 Preferably said nucleic acid molecule is an aptamer or a modified aptamer. In an alternative preferred method of the invention said nucleic acid is an inhibitory RNA (RNAi) molecule. Alternatively said nucleic acid molecule is an antisense nucleic acid molecule.

10 Nucleic acids have both linear sequence structure and a three dimensional structure which in part is determined by the linear sequence and also the environment in which these molecules are located. Conventional therapeutic molecules are small molecules, for example, peptides, polypeptides, or antibodies, which bind target molecules to produce an agonistic or antagonistic effect. It has become apparent that  
15 nucleic acid molecules also have potential with respect to providing agents with the requisite binding properties which may have therapeutic utility. These nucleic acid molecules are typically referred to as aptamers. Aptamers are small, usually stabilised, nucleic acid molecules which comprise a binding domain for a target molecule. A screening method to identify aptamers is described in US 5,270,163,  
20 which is incorporated by reference. Aptamers are typically oligonucleotides which may be single stranded oligodeoxynucleotides, oligoribonucleotides, or modified oligodeoxynucleotide or oligoribonucleotides.

The term "modified" encompasses nucleotides with a covalently modified base  
25 and/or sugar. For example, modified nucleotides include nucleotides having sugars which are covalently attached to low molecular weight organic groups other than a hydroxyl group at the 3' position and other than a phosphate group at the 5' position. Thus modified nucleotides may also include 2' substituted sugars such as 2'-O-methyl-; 2-O-alkyl; 2-O-allyl; 2'-S-alkyl; 2'-S-allyl; 2'- fluoro-; 2'-halo or 2;azido-  
30 ribose, carbocyclic sugar analogues a-anomeric sugars; epimeric sugars such as arabinose, xyloses or lyxoses, pyranose sugars, furanose sugars, and sedoheptulose.



Modified nucleotides are known in the art and include by example and not by way of limitation; alkylated purines and/or pyrimidines; acylated purines and/or pyrimidines; or other heterocycles. These classes of pyrimidines and purines are known in the art and include, pseudoisocytosine; N<sup>4</sup>, N<sup>4</sup>-ethanocytosine; 8-hydroxy-N<sup>6</sup>-methyladenine; 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil; 5-fluorouracil; 5-bromouracil; 5-carboxymethylaminomethyl-2-thiouracil; 5-carboxymethylaminomethyl uracil; dihydrouracil; inosine; N<sup>6</sup>-isopentyl-adenine; 1-methyladenine; 1-methylpseudouracil; 1-methylguanine; 2,2-dimethylguanine; 2-methyladenine; 2-methylguanine; 3-methylcytosine; 5-methylcytosine; N<sup>6</sup>-methyladenine; 7-methylguanine; 5-methylaminomethyl uracil; 5-methoxy amino methyl-2-thiouracil;  $\beta$ -D-mannosylqueosine; 5-methoxycarbonylmethyluracil; 5-methoxyuracil; 2-methylthio-N<sup>6</sup>-isopentenyladenine; uracil-5-oxyacetic acid methyl ester; pseudouracil; 2-thiocytosine; 5-methyl-2-thiouracil, 2-thiouracil; 4-thiouracil; 5-methyluracil; N-uracil-5-oxyacetic acid methylester; uracil 5-oxyacetic acid; queosine; 2-thiocytosine; 5-propyluracil; 5-propylcytosine; 5-ethyluracil; 5-ethylcytosine; 5-butyluracil; 5-pentyluracil; 5-pentylcytosine; and 2,6-diaminopurine; methylpseudouracil; 1-methylguanine; 1-methylcytosine.

The aptamers of the invention are synthesized using conventional phosphodiester linked nucleotides and synthesized using standard solid or solution phase synthesis techniques which are known in the art. Linkages between nucleotides may use alternative linking molecules. For example, linking groups of the formula P(O)S, (thioate); P(S)S, (dithioate); P(O)NR'<sup>2</sup>; P(O)R'; P(O)OR<sup>6</sup>; CO; or CONR'<sup>2</sup> wherein R is H (or a salt) or alkyl (1-12C) and R<sup>6</sup> is alkyl (1-9C) is joined to adjacent nucleotides through -O- or -S-. The binding of aptamers to a target polypeptide is readily testable.

An alternative nucleic acid molecule is a so called RNAi molecule. A recent technique to specifically ablate gene function is through the introduction of double stranded RNA, also referred to as inhibitory RNA (RNAi), into a cell which results

in the destruction of mRNA complementary to the sequence included in the RNAi molecule. The RNAi molecule comprises two complementary strands of RNA (a sense strand and an antisense strand) annealed to each other to form a double stranded RNA molecule. The RNAi molecule is typically derived from exonic or coding sequence of the gene which is to be ablated. Recent studies suggest that RNAi molecules ranging from 100-1000bp derived from coding sequence are effective inhibitors of gene expression. Surprisingly, only a few molecules of RNAi are required to block gene expression which implies the mechanism is catalytic. The site of action appears to be nuclear as little if any RNAi is detectable in the cytoplasm of cells indicating that RNAi exerts its effect during mRNA synthesis or processing.

In a preferred method of the invention there is provided a cassette comprising a nucleic acid molecule, or part thereof, wherein said molecule is selected from the group consisting of:

- i) a nucleic acid molecule represented by the nucleic acid sequence shown in Table 1 ;
- ii) a nucleic acid molecule which hybridises to the sequence in (i) above and which encodes a polypeptide which initiates or promotes transformation of colon cells; or
- iii) a nucleic acid molecule which is degenerate because of the genetic code to the sequences defined in (i) and (ii) above, wherein said cassette is adapted such that both sense and antisense nucleic acid molecules are transcribed from said cassette.

In a preferred method of the invention said cassette is provided with at least two promoters adapted to transcribe both sense and antisense strands of said nucleic acid molecule.

In a further preferred method of the invention said cassette comprises a nucleic acid molecule wherein said molecule comprises a first part linked to a second part wherein said first and second parts are complementary over at least part of their

sequence and further wherein transcription of said nucleic acid molecule produces an RNA molecule which forms a double stranded region by complementary base pairing of said first and second parts.

- 5 In a preferred embodiment of the invention said first and second parts are linked by at least one nucleotide base.

In a preferred embodiment of the invention said first and second parts are linked by 2, 3, 4, 5, 6, 7, 8, 9 or at least 10 nucleotide bases.

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In a further preferred embodiment of the invention the length of the RNAi molecule is between 100bp-1000bp. More preferably still the length of RNAi is selected from 100bp; 200bp; 300bp; 400bp; 500bp; 600bp; 700bp; 800bp; 900bp; or 1000bp. More preferably still said RNAi is at least 1000bp.

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In an alternative preferred method of the invention the RNAi molecule is between 15bp and 25bp, preferably said molecule is 21bp. Preferably said cassette is part of a vector.

- 20 According to a further aspect of the invention there is provided an antibody identified by the method according to the invention for use as a pharmaceutical.

According to a further aspect of the invention there is provided a polypeptide or peptide identified by the method according to the invention for use as a  
25 pharmaceutical.

According to a further aspect of the invention there is provided a nucleic acid molecule identified by the method according to the invention for use as a  
30 pharmaceutical.

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In a preferred embodiment of the invention said nucleic acid molecule is an aptamer.

In an alternative preferred embodiment of the invention said nucleic acid molecule is an inhibitory RNA.

- 5 In a further alternative preferred embodiment of the invention said nucleic acid molecule is an antisense nucleic acid molecule.

In a preferred embodiment of the invention said pharmaceutical further comprises a a diluent, carrier or excipient.

- 10 When administered, the therapeutic compositions of the present invention are administered in pharmaceutically acceptable preparations. Such preparations may routinely contain pharmaceutically acceptable concentrations of salt, buffering agents, preservatives, compatible carriers, supplementary immune potentiating agents such as adjuvants and cytokines and optionally other therapeutic agents, such as  
15 chemotherapeutic agents.

- The therapeutics of the invention can be administered by any conventional route, including injection or by gradual infusion over time. The administration may, for example, be oral, intravenous, intraperitoneal, intramuscular, intracavity,  
20 subcutaneous, or transdermal. When antibodies are used therapeutically, a preferred route of administration is by pulmonary aerosol. Techniques for preparing aerosol delivery systems containing antibodies are well known to those of skill in the art. Generally, such systems should utilize components which will not significantly impair the biological properties of the antibodies, such as the paratope binding  
25 capacity (see, for example, Sciarra and Cutie, "Aerosols," in Remington's Pharmaceutical Sciences, 18th edition, 1990, pp 1694-1712; incorporated by reference). Those of skill in the art can readily determine the various parameters and conditions for producing antibody aerosols without resort to undue experimentation. When using antisense preparations of the invention, slow intravenous administration  
30 is preferred.

The compositions of the invention are administered in effective amounts. An “effective amount” is that amount of a composition that alone, or together with further doses, produces the desired response. In the case of treating a particular disease, such as cancer, the desired response is inhibiting the progression of the disease. This may involve only slowing the progression of the disease temporarily, although more preferably, it involves halting the progression of the disease permanently. This can be monitored by routine methods or can be monitored according to diagnostic methods of the invention discussed herein.

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Such amounts will depend, of course, on the particular condition being treated, the severity of the condition, the individual patient parameters including age, physical condition, size and weight, the duration of the treatment, the nature of concurrent therapy (if any), the specific route of administration and like factors within the knowledge and expertise of the health practitioner. These factors are well known to those of ordinary skill in the art and can be addressed with no more than routine experimentation. It is generally preferred that a maximum dose of the individual components or combinations thereof be used, that is, the highest safe dose according to sound medical judgment. It will be understood by those of ordinary skill in the art, however, that a patient may insist upon a lower dose or tolerable dose for medical reasons, psychological reasons or for virtually any other reasons.

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The pharmaceutical compositions used in the foregoing methods preferably are sterile and contain an effective amount for producing the desired response in a unit of weight or volume suitable for administration to a patient. The response can, for example, be determined by measuring the physiological effects of the composition, such as regression of a tumour, decrease of disease symptoms, modulation of apoptosis, etc.

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The doses of pharmaceutical agent administered to a subject can be chosen in accordance with different parameters, in particular in accordance with the mode of

administration used and the state of the subject. Other factors include the desired period of treatment. In the event that a response in a subject is insufficient at the initial doses applied, higher doses (or effectively higher doses by a different, more localized delivery route) may be employed to the extent that patient tolerance  
5 permits.

In general, doses of pharmaceutical are formulated and administered in doses between 1 ng and about 500mg, and between 10 ng and 100mg, according to any standard procedure in the art. Where nucleic acids are employed, doses of between  
10 1 ng and 0.1mg generally will be formulated and administered according to standard procedures. Other protocols for the administration of compositions will be known to one of ordinary skill in the art, in which the dose amount, schedule of injections, sites of injections, mode of administration (e.g., intra-tumoral) and the like vary from the foregoing. Administration of pharmaceutical compositions to mammals other than  
15 humans, e.g. for testing purposes or veterinary therapeutic purposes, is carried out under substantially the same conditions as described above. A subject, as used herein, is a mammal, preferably a human, and including a non-human primate, cow, horse, pig, sheep, goat, dog, cat or rodent.

20 When administered, the pharmaceutical preparations of the invention are applied in pharmaceutically-acceptable amounts and in pharmaceutically-acceptable compositions. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredients. Such preparations may routinely contain salts, buffering agents,  
25 preservatives, compatible carriers, and optionally other therapeutic agents. When used in medicine, the salts should be pharmaceutically acceptable, but non-pharmaceutically acceptable salts may conveniently be used to prepare pharmaceutically-acceptable salts thereof and are not excluded from the scope of the invention. Such pharmacologically and pharmaceutically-acceptable salts include,  
30 but are not limited to, those prepared from the following acids: hydrochloric, hydrobromic, sulfuric, nitric, phosphoric, maleic, acetic, salicylic, citric, formic,

malonic, succinic, and the like. Also, pharmaceutically-acceptable salts can be prepared as alkaline metal or alkaline earth salts, such as sodium, potassium or calcium salts.

5 Pharmaceutcial compositions may be combined, if desired, with a pharmaceutically-acceptable carrier. The term "pharmaceutically-acceptable carrier" as used herein means one or more compatible solid or liquid fillers, diluents or encapsulating substances which are suitable for administration into a human. The term "carrier"

10 ingredient is combined to facilitate the application. The components of the pharmaceutical compositions also are capable of being co-mingled with the molecules of the present invention, and with each other, in a manner such that there is no interaction which would substantially impair the desired pharmaceutical efficacy.

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The pharmaceutical compositions may contain suitable buffering agents, including: acetic acid in a salt; citric acid in a salt; boric acid in a salt; and phosphoric acid in a salt.

20 The pharmaceutical compositions also may contain, optionally, suitable preservatives, such as: benzalkonium chloride; chlorobutanol; parabens and thimerosal.

The pharmaceutical compositions may conveniently be presented in unit dosage form

25 and may be prepared by any of the methods well-known in the art of pharmacy. All methods include the step of bringing the active agent into association with a carrier which constitutes one or more accessory ingredients. In general, the compositions are prepared by uniformly and intimately bringing the active compound into association with a liquid carrier, a finely divided solid carrier, or both, and then, if

30 necessary, shaping the product.

Compositions suitable for oral administration may be presented as discrete units, such as capsules, tablets, lozenges, each containing a predetermined amount of the active compound. Other compositions include suspensions in aqueous liquids or non-aqueous liquids such as a syrup, elixir or an emulsion.

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Compositions suitable for parenteral administration conveniently comprise a sterile aqueous or non-aqueous preparation of pharmaceutical agents, which is preferably isotonic with the blood of the recipient. This preparation may be formulated according to known methods using suitable dispersing or wetting agents and suspending agents. The sterile injectable preparation also may be a sterile injectable solution or suspension in a non-toxic parenterally-acceptable diluent or solvent, for example, as a solution in 1,3-butane diol. Among the acceptable vehicles and solvents that may be employed are water, Ringer's solution, and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil may be employed including synthetic mono- or di-glycerides. In addition, fatty acids such as oleic acid may be used in the preparation of injectables. Carrier formulation suitable for oral, subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's Pharmaceutical Sciences, Mack Publishing Co., Easton, PA.

20

An embodiment of the invention will now be described by example only and with reference to the following Figures and Tables;

Figure 1 illustrates a concentration-response of cells growing in butyrate as sole carbon source. This is the summary of four independent repeat experiments. Legend shows butyrate concentrations in mM;

25

Figure 2 illustrates the purity and quality of RNA preparation. The 28S and 18S sample bands are tight and clearly resolved for RNA prepared from butyrate- and glucose-grown cells. Little or no DNA or salt contamination appears in the samples;

30



Table 1 illustrates nucleic acid sequences identified by the screening method according to the invention; and

- 5 Table 2 illustrates a summary of expression data of nucleic acid sequences identified in Table 1.

### **Materials and Methods**

- 10 We have compared the expression profiles of colon cells growing in either glucose or butyrate as a carbon source. HT 29 colon carcinoma cells were cultured in DMEM medium (Gibco) in the presence of 10% foetal calf serum, penicillin and streptomycin. Cells were either cultured in glucose alone as the sole carbon source, or in butyrate as the sole extraneous provided carbon source. Empirical analysis of
- 15 HT29 cells grown in multiple butyrate concentrations revealed that 2mM butyrate was optimal for cell culture in the absence of glucose. Cells were cultured in either medium for multiple passages (typically 4). RNA was extracted from cells grown in each condition and used to probe an Affymetrix human 12k array. The expression profile of cells cultured in each condition was compared and genes altered in
- 20 expression by more than 2 fold are listed in Table 2.

### **Materials used during this study**

<u>ITEM</u>	<u>ITEM - SPECIFICS</u>	<u>SUPPLIER</u>
Glucose medium (1)	Dulbecco's Modified Eagle Medium 25 mM HEPES 1 x 0.1 micron filtered with sodium pyruvate, with 1000	GIBCO

	mg/l glucose with pyridoxine + FCS + p/s (500 ml)	
Butyrate medium (2) 0.2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 110 µl + FCS + p/s (555.1 ml)	GIBCO
Butyrate medium (3) 2 mM NaB medium	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + NaB (1M) 1100 µl + FCS + p/s (556.1 ml)	GIBCO
Medium without glucose and without butyrate (4)	Dulbecco's Modified Eagle Medium 1 x 0.1 micron filtered with L-glutamine without glucose, without sodium pyruvate + FCS + p/s (550 ml)	GIBCO
NaB stock	Sodium Butyrate powder dissolved in sterile water 250 mg in 2.27 ml water	Sigma

	(1M) 0.2 µm filter sterilised	
Sterile syringes	5 ml	Becton Dickinson UK, Ltd
Sterilising filters	0.2 µm Acrodisc	Gelman Sciences, Ltd
<b><u>Item</u></b>	<b><u>Item specifics</u></b>	<b><u>Supplier</u></b>
FCS	Foetal Calf Serum 50 ml per 500 ml DMEM	Harlan Sera Lab
P/S	Penicillin – Streptomycin solution 100ml bottle (100 X) – 5 ml per 500 ml DMEM	Sigma
TE for splitting cells	Trypsin Enzyme – 100 ml bottle - 3 ml per T75 and 1 ml per 6 well plate well	Sigma
FCS tubes	50 ml Centrifuge tubes	Corning Inc
P/S + TE tubes	30 ml Universal containers	Bibby Sterilin Ltd
Tissue Culture Plates	6 well sterile with lid single packed	Greiner bio-one
Tissue Culture Flasks	T 75	Nunclon
Stripette ® 5ml, 10ml,	Serological Pipette,	Corning Inc / Costar

25 ml	individually wrapped	
Pipette	Powerpette plus	Jencons
Cell Counting Slide	Haemocytometer, improved Neubauer	Neubauer
Ethanol for tissue culture	70 % EtOH	Sigma
Virkon for cell culture	1 % Virkon	Day Impex, Ltd
Microscope for cell work	Light 6 – 10X	CK Olympus, Tokyo
Paper towels	Blue	Jamont (UK), Ltd
Latex-free examination gloves	Large	Shermond Surgical Supply, Ltd
<b><u>Item</u></b>	<b><u>Item specifics</u></b>	<b><u>Supplier</u></b>
RNA extraction reagent	TRIzol ® Reagent	Invitrogen – Life technologies
RNA extraction reagent	Chloroform	Sigma
RNA extraction reagent	Isopropyl alcohol	Sigma

RNA extraction reagent	75% EtOH in DEPC-treated water	Sigma
RNA extraction reagent	Rnase-free water	Sigma
RNA clean up kit	Rneasy Midi Kit (10 RNeasy midi spin columns)	Qiagen
$\beta$ - Mercaptoethanol	14.3 M stock solution	Sigma
Ethanol for Qiagen	96-100% EtOH	Sigma
Agarose	1g in 100 ml TB-EDTA-Buffer	Helena Biosciences, UK
TB-EDTA- Buffer	Tris-Borate-EDTA buffer 100ml	Sigma
Eppendorf tubes	1.5 ml	Sarstedt Laboratory supplies, Ltd
Loading buffer	6 X	Promega

#### **The Human Colon Carcinoma Cell Line - HT29**

5 The HT29 cell line is established from a colon adenocarcinoma which was removed from a 44 year old Caucasian woman. The cell line is epithelial in origin and hypertriploid. It has been shown to be tumourigenic in nude mice and synthesizes Carcino embryonic antigen - CEA (Egan & Todd, 1972) and the Transforming

growth factors - TGF- $\alpha$  and TGF- $\beta$  (Anzano *et al.* 1989) when maintained *in vitro*. The HT29 cell line constitutively over-produces mutant p53 protein as a consequence of a point mutation at codon 273, resulting in an Arginine to Histidine amino acid substitution (Hsu *et al.* 1994).

5

### **The Culture of HT29 Colorectal adenocarcinoma cells**

Cells were cultured in T75 tissue culture flasks (Nunc) in 5% CO<sub>2</sub> at 37°C. Cells were passaged when confluent by washing twice in PBS and incubating in pre-warmed trypsin : EDTA (1:1) at 37°C until cells detached. The cells were then re-suspended in the appropriate growth medium, either glucose DMEM or butyrate DMEM before being seeded into new T75 tissue culture flasks or 6-well plates.

10

### **Optimisation of HT29 cell growth in butyrate as sole extraneous carbon source**

15

HT29 cells were seeded out into 19 wells (in 6 well plates) at a cell density of 0.5 x 10<sup>6</sup> cells per well (i.e. 500 000 cells per well) deduced with the aid of a Haemocytometer (Improved Neubauer). These cells were taken from T75 - 0.2 mM butyrate (NaB) DMEM flasks and allowed to adhere to the 6-well plates over 72 hrs also in 0.2 mM NaB DMEM with FCS and Penicillin / Streptomycin antibiotics. After the cells had adhered to the surface of the 6 well plates the 0.2 mM NaB DMEM was removed and each well was washed twice with PBS in order to remove all traces of the 0.2 mM DMEM, then different concentrations of NaB DMEM with FCS and with Penicillin / Streptomycin antibiotics were added to the appropriate wells in triplicate. Cell counts were taken at various time points. Specific media was changed daily in order to maintain the appropriate / desired NaB concentrations per well. All solutions / reagents used were pre-warmed in a water bath prior to use so as to avoid any cold shock to the cells.

20

25

30

### RNA extraction using TRIzol® Reagent

Total RNA was extracted from HT29 cells grown to confluence in T75 flasks using TRIzol Reagent as per manufacturer's recommendations. Cells were grown for  
5 several passages either in butyrate-containing medium, or in glucose-containing medium prior to extraction of RNA

Cells were homogenised using 1 ml TRIzol Reagent per 10 cm<sup>2</sup> area of culture surface. The homogenised samples were incubated for 5 minutes at ambient  
10 temperature to permit the complete dissociation of nucleoprotein complexes. 200µl of chloroform was added to each sample. Tubes were shaken vigorously by hand for 15 seconds and incubated at ambient temperature for 3 minutes. Samples were centrifuged at 12000g for 15 minutes at 4°C. RNA in the aqueous phase was separated and precipitated using isopropyl alcohol. RNA was rinsed, air dried and  
15 redissolved in RNase-free water.

RNA was further purified using Qiagen RNeasy columns. The columns were used exactly as per manufacturer's recommendations. RNA was eluted into RNase-free water.

20

RNA purified in this way was analysed by agarose gel to establish purity and quality. The gel is shown in figure 2.

### Microarray analysis

25

Microarray analysis was undertaken as a commercial service by the University of Newcastle-upon-Tyne. In this study, the 2 RNA samples (1x butyrate + 1x glucose) from the 2 experimental conditions (butyrate + glucose) were sent to the Institute for Human Genetics at the University of Newcastle-upon-Tyne for microarray analysis.

30 This was performed on a 12 k Affymetrix *Homo sapiens* gene chip. Genes altered in expression by more than 2 fold on the microarray are listed in table 1.

Table 1

Human mitochondrial ADP/ADT translocator mRNA, complete cds.

ccccctagcg	tcgcgcaggg	tcggggactg	cgcgcggtgc	caggccgggc	gtgggcgaga	60
gcacgaacgg	gctgctgcgg	gctgagagcg	tcgagctgtc	accatgggtg	atcacgcttg	120
gagcttccta	aaggacttcc	tggcgggggc	ggtcgccgct	gccgtctcca	agaccgcggt	180
cgccccatc	gagagggtca	aactgctgct	gcagggtccag	catgccagca	aacagatcag	240
tgctgagaag	cagtacaaag	ggaacattga	ttgtgtggtg	agaatcccta	aggagcaggg	300
cttcctctcc	ttctggaggg	gtaacctggc	caacgtgatc	cgttacttcc	ccaccaagc	360
tctcaacttc	gccttcaagg	acaagtacaa	gcagctcttc	ttaggggggtg	tggatcggca	420
taagcagttc	tggcgctact	ttgctggtaa	cctggcgctc	ggtggggccg	ctggggccac	480
ctccctttgc	tttgtctacc	cgtgggactt	tgctaggacc	aggttggtg	ctgatgtggg	540
caggcgcgcc	cagcgtgagt	tccatggtct	gggcgactgt	atcatcaaga	tcttcaagtc	600
tgatggcctg	agggggctct	accagggttt	caacgtctct	gtccaaggca	tcattatcta	660
tagagctgcc	tacttcggag	tctatgatac	tgccaagggg	atgctgcctg	acccaagaa	720
cgtgcacatt	tttgtgagct	ggatgattgc	ccagagtgtg	acggcagtcg	cagggctgct	780
gtcctacccc	tttgacactg	ttcgtcgtag	aatgatgatg	cagtccggcc	ggaaaggggc	840
cgatattatg	tacacgggga	cagttgactg	ctggaggaag	attgcaaaag	acgaaggagc	900
caaggccttc	ttcaaagggtg	cctgggtccaa	tgtgctgaga	ggcatgggcg	gtgcttttgt	960
attggtgttg	tatgatgaga	tcaaaaaata	tgtctaattg	aattaaaaca	caagttcaca	1020
gatttacatg	aacttgatct	acaagttcac	agatccattg	tgtggtttta	tagactattc	1080
ctaggggaag	taaaaagatc	tgggataaaa	ccagactgaa	aggaatacct	cagaagagat	1140
gcttcattga	gtgttcatta	aaccacacat	gtattttgtg	tttattttac	atttaaattc	1200
ccacagcaaa	tagaaataat	ttatcatact	tgtacaatta	actgaagaat	tgataataac	1260
tgaatgtgaa	acatcaataa	agaccactta	atgcacaaaa	aaaaaaaaaa	aaaaaaaaaa	1320



## Homo sapiens mRNA for VNN1 protein

cattggactt	cagcatgact	actcagttgc	cagcttacgt	ggcaatthttg	cttttctatg	60
tctcaagagc	cagctgccag	gacactttca	ttgcagctgt	ttatgagcat	gcagcgatat	120
tgcccaatgc	caccctaaca	ccagtgcttc	gtgaggaggc	tttggcatta	atgaatcgga	180
atctggacat	tttgggaagga	gcgatcacat	cagcagcaga	tcagggtgcg	catattattg	240
tgactccaga	agatgcttatt	tatggctgga	acttcaacag	ggactctctc	tacccatatt	300
tgagggacat	cccagaccct	gaagtaaact	ggatcccctg	taataatcgt	aacagatttg	360
gccagacccc	agtacaagaa	agactcagct	gcctggccaa	gaacaactct	atctatgttg	420
tgggcaaatat	tggggacaag	aagccatgcg	ataccagtga	tcctcagtgt	ccccctgatg	480
gccgttacca	atacaaoact	gatgtggtat	ttgattctca	aggaaaactg	gtggcacgct	540
accataagca	aaaccttttc	atgggtgaaa	atcaattcaa	tgtacccaag	gagcctgaga	600
ttgtgacttt	caataccacc	tttgggaagt	ttggcatttt	cacatgcttt	gatataactc	660
tccatgatcc	tgtctgtacc	ttggtgaaag	atttccagct	ggacaccata	gtattcccaa	720
cagcttggat	gaatgttttg	ccacatttgt	cagctgttga	attccactca	gcttgggcta	780
tgggcatgag	ggtcaatttc	cttgcattca	acatacatta	cccctcaaag	aaaatgacag	840
gaagtggcat	ctatgcaccc	aattcttcaa	gagcatttca	ttatgatatg	agacagagaag	900
agggaaaact	cctcctctcg	caactggatt	cccacccatc	ccattctgca	gtgggtgaact	960
ggacttccta	tgccagcagt	atagaagcgc	tctcatcagg	aaacaaggaa	tttaaaggca	1020
ctgtcttttt	cgatgaattc	acttttgtga	agctcacagg	agttgcagga	aattatacag	1080
tttgtcagaa	agatctctgc	tgtcatttaa	gctacaaaat	gtctgagaac	ataccaaatg	1140
aagtgtacgc	tctaggggca	tttgacggac	tgcacactgt	ggaagggcgc	tattatctac	1200
agatttgtac	cctgttgaaa	tgtaaaacga	ctaattttaa	cacttgcggg	gactcagctg	1260
aaacagcttc	taccagggtt	gaaatgttct	ccctcagtgg	cactttcgga	accagtatg	1320
tctttctctga	ggtgttgctg	agtgaaaatc	agcttgcacc	tggagaattt	caggtgtcaa	1380
ctgacggacg	cttgttttagt	ctgaagccaa	catccggacc	tgtotaaaca	gtaactctgt	1440
ttgggagggt	gtatgagaag	gactgggcac	caaagcttcc	atcaggcctc	acagcacaag	1500
caagaataat	aatgctaata	gttatagcac	ctattgtatg	ctcattaagt	tggtagaata	1560
ttgacttttt	ctctttttta	tttgggataa	tttaaaaaat	gatggatgag	aaaagaaaga	1620
ttgggtccggg	ttaatatatt	cctctagtat	aagtgaatta	ctagtttctc	tttatttaga	1680
caaacacaca	cacaccagat	aatataaact	taataaatta	tctgttaatg	tagattttat	1740
ttaaaaaact	atatttgaac	attggctctt	cttggacgtg	agctaattat	atcaaaataag	1800
tatcacaaat	cttttacgca	gaagaaataa	aaactacggg	tagaaaacat	aagaactatc	1860
ataaaaattta	cttacaagga	ggctgctctt	gttaccactt	ttattatatt	acgtatcact	1920
tattcagctc	tgtgaaaat	ttccaatgac	tttgtttgtt	tgtcttttta	gttttttacc	1980
taacaataac	attttgattc	tcttgtgggt	tgataatgtc	tccccaaaat	ttacatgttg	2040
aagcacctca	gaatgtgact	gtatttggag	acagggtctt	taaagaggta	aaataagggtc	2100
attagtagat	accctaattc	aatatgactg	atgatcataa	aagaagaggc	gagtaggggca	2160
caacaggcac	aaaggggagac	cataaggaga	cacagaggaa	ggacaactct	ttacaagcta	2220
agaagagagg	gcctcagaag	aaaccaaccc	tgccaacacc	ttgatcttgg	acttccagcc	2280
tccaaaacta	tgagaaataa	atttctattg	tttaagtcat	ccagtccatg	gtacttttgt	2340
aggcagccct	ggcaaatgaa	tcaaagaccc	attcctgttc	ctctccccac	cactactgtt	2400
ttctactgta	atctgaagct	tcaacaaaag	gcttacctgg	taagaatatt	cagctgggtct	2460
gggtcctcaa	gactccaata	gacactctta	aagaaggatt	gctgatggat	tgatagttaa	2520
accattagat	cattgaattc	ctctggaatt	agaaaaccag	agagtcccat	tttaagaaat	2580
tagatattta	atatagcatt	gtgtgttcta	tttttagtaac	agcagaatct	cttgacatta	2640
cacaactcag	tgaacaacaa	tcattttaagc	caaaatatct	cccaactgac	tgatagactc	2700
tgagcactaa	tatcatagtg	ctgtgatgat	ggacaattac	atagtaccga	taacagccat	2760
gcactgtgca	aagcatgccc	ttctgcacag	gagagcaagg	cacttgcagt	agtgatctat	2820
gccagcaaaa	catcattttg	agacaaacat	ttttgtggga	gatgtttttc	ctaaaaagta	2880
ctatatcatc	caagaaatat	ttgagtaaaa	tcccttggtc	ttttgggtga	catttaactga	2940
catttgcctt	ttttcaagac	ctaataagaa	ataagaaagc	ccataatgta	tttagaaaca	3000
ggaatcctca	gagcaattct	ctgtattctc	atataatttc	aatgtaaaac	agaaaaacata	3060
ttgatgtgtt	ggtgataggc	ttgaattatt	aaaaacttca	aaaacaaaa		3109

## Homo sapiens transmembrane protein 5, mRNA

ggctgggcct	gcctcggacg	cgcgcgggtgt	cgcggattct	ctttccgccc	gctccatggc	60
ggtggatgcc	tgactggaag	cccgagtggg	atgcggctga	cgcggaagcg	gctctgctcg	120
tttcttatcg	cctgtactg	cctattctcc	ctctacgctg	cctaccacgt	cttcttcggg	180
cgccgcgcgc	aggcgccggc	cgggtccccg	cggggcctca	ggaagggggc	ggcccccgcg	240
cgggagagac	gcggccgaga	acagtccact	ttgaaaagtg	aagaatggaa	tccttgggaa	300
ggagatgaaa	aaaatgagca	acaacacaga	tttaaaacta	gccttcaaat	attagataaa	360
tccacgaaag	gaaaaacaga	tctcagtgtg	caaactctggg	gcaaagctgc	cattggccttg	420
tatctctggg	agcatatttt	tgaaggctta	cttgatccca	gcgatgtgac	tgctcaatgg	480
agagaaggaa	agtcaatcgt	aggaagaaca	cagtacagct	tcatcactgg	tccagctgta	540
ataccaggg	acttctccgt	tgatgtgaat	aatgtggtac	tcatttttaa	tggagagaaa	600
aaagcaaaga	tcttttatgc	caccagtg	ttactttatg	cacaaaattt	agtgcaaatt	660
caaaaactcc	agcatcttgc	tggtgttttg	ctcgaaaatg	aacattgtga	taatgagtgg	720
ataaacccat	tcctcaaaag	aaatggaggc	ttcgtggagc	tgcttttcat	aatatatgac	780
agcccctgga	ttaatgacgt	ggatgttttt	cagtggcctt	taggagtagc	aacatacagg	840
aattttcctg	tgggtggaggc	aagtgtgtca	atgctgcatg	atgagaggcc	atatttatgt	900
aatttcttag	gaacgattta	tgaaaattca	tccagacagg	cactaatgaa	cattttgaaa	960
aaagatggga	acgataagct	ttgttgggtt	tcagcaagag	aacactggca	gcctcaggaa	1020
acaaatgaaa	gtcttaagaa	ttaccaagat	gccttgcttc	agagtgatct	cacattgtgc	1080
cgggtcggag	taaacacaga	atgctatcga	atctatgagg	cttgctccta	tggctccatt	1140
cctgtggtgg	aagacgtgat	gacagctggc	aactgtggga	atacatctgt	gcaccacggt	1200
gctcctctgc	agttactcaa	gtccatgggt	gctcccttta	tctttatcaa	gaactggaag	1260
gaactccctg	ctgttttaga	aaaagagaaa	actataattt	tacaagaaaa	aattgaaaga	1320
agaaaaatgt	tacttcagt	gtatcagcac	ttcaagacag	agcttaaaat	gaaattttact	1380
aatatttttag	aaagctcatt	tttaatgaat	aataaaaagt	aattatcttt	ttgagctaaa	1440
aaaaaaaa	aaaaaaaa	aaaaaaaa				

## Homo sapiens CD3e-associated protein (CAST) mRNA, complete cds.

```

cccaggatgg aggagcccca ggccggcgggt gaggatgctg ctcggtttctc ttgtccccc 60
aactttaccg cgaagccccc agcctcagag tccctcgtt tctccttgga ggcgctgacg 120
ggtccagata cggagctgtg gcttattcag gccctgcag actttgccc agaatgcttc 180
aatgggcggc atgtgcctct ctctggctcc cagatcgtca agggcaaatt ggcaggcaag 240
cggcacccgt atcgagtcct cagcagctgt cccaagctg gagaagcgac cctgctggcc 300
ccctcaacgg aggcaggagg tggactcacc tgtgctcag cccccaggg caccctaagg 360
atccttgagg gtccccagca atcctgtca gggagccctc tgcagcccat ccagcaagt 420
ccccaccac agatccctcc tggcctgagg cctcggttct gtgcctttgg gggcaacca 480
ccagtacag ggctagggtc agccttggcc cccaacctgc tcacctcagg gaagaagaaa 540
aaggagatgc aggtgacaga ggccccagtc actcaggagg cagtgaatgg gcacggggcc 600
ctggagggtg acatggcttt ggggtcgcca gaaatggatg tgcggaagaa gaagaagaaa 660
aaaaatcagc agctgaaaga accagaggca gcagggcctg tggggacaga gccacagtg 720
gagacactgg agcctctggg agtgcctgtc ccgtccacca ccaagaagag gaagaagccc 780
aaagggaaaag aaaccttcga gccagaagac aagacagtga agcaggaaca gattaacact 840
gagcctctag aagacacagt cctgtccccg accaaaaaga gaaagaggca aaaggggacg 900
gaagggatgg agccagagga gggggtgaca gttgagtctc agccacaggt gaagggtggag 960
ccactggagg aagccatccc tctgccccct acgaagaaga ggaaaaaaga aaagggacag 1020
atggcaatga tggagccagg gbdggaggcg atggagccag tggagccgga gatgaagcct 1080
ctggagtccc cagggggggac catggcgctt caacagccag aaggagcgaa gcctcaggcc 1140
caggcagctc tggcagctcc caaaaagaag acgaagaag aaaaacagca agatgccaca 1200
gtggagccag agacagaggt ggtggggcct gagctgccgg atgacctga gcctcaggca 1260
gtccccacat ccaccaagaa gaagaagaag aagaagaga gaggtcacac agtgactgag 1320
ccaattcagc cactagagcc tgaactgcc ggggaggggac agcctgaagc cagggcaact 1380
ccgggatcca ccaagaagag gaagaagcag agtcaggaaa gccggatgcc agagacagtg 1440
ccccaagagg agatgccagg gccgccactg aattcagagt ctggggagga ggctcccaca 1500
ggccgggaca agaagcggaa gcagcagcag cagcagcctg tgtagtctgc ccccgggaaa 1560
ctgaggaact aaagaagct gaaggtgcc acctgggcca ccagaagggtg acacccccag 1620
aatccctccc cagagactgc accagcgag ccagcaggag cctggcctgg gaggacgatt 1680
tattattaca ctgggggttt ccttggcagc tggggtcatc agggtaacttt caagaagggc 1740
tcgtgcagga catcaaacag cctccgggcc tggatgggag ggagaaaaaa atgaggaacc 1800
gtcattaaa ggagctgttt cctgggtaaa aaaaaaaaaa a

```

Homo sapiens Apo-2 ligand mRNA, complete cds.

```

tttcctcact gactataaaa gaatagagaa ggaagggcct cagtgaccgg ctgcctggct      60
gacttacagc agtcagactc tgacaggatc atggctatga tggagggtcca gggggggaccc      120
agcctgggac agacctgcgt gctgatcgtg atcttcacag tgctcctgca gtctctctgt      180
gtggctgtaa cttacgtgta ctttaccac gagctgaagc agatgcagga caagtactcc      240
aaaagtggca ttgcttggtt cttaaaagaa gatgacagtt attgggaccc caatgacgaa      300
gagagtatga acagccccctg ctggcaagtc aagtggcaac tccgtcagct cgttagaaag      360
atgattttga gaacctctga ggaaaccatt tctacagttc aagaaaagca acaaaatatt      420
tctcccctag tgagagaaag aggtcctcag agagtagcag ctacataac tgggaccaga      480
ggaagaagca acacattgtc ttctccaaac tccaagaatg aaaaggctct gggccgcaaa      540
ataaactcct gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg      600
aatggtgaac tgggtcatcca tgaaaaaggg ttttactaca tctattccca aacatacttt      660
cgatttcagg aggaaataaa agaaaacaca aagaacgaca aacaaatggt ccaatatatt      720
taciaatata caagttatcc tgaccctata ttgttgatga aaagtgctag aaatagttgt      780
tggctctaaag atgcagaata tggactctat tccatctatc aagggggaat atttgagctt      840
aaggaaaatg acagaatgtt tgtttctgta acaaatgagc acttgataga catggaccat      900
gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga aaaagcaata      960
acctcaaagt gactattcag ttttcaggat gatacactat gaagatgttt caaaaaatct     1020
gaccaaaca aacaaacaga aa

```

## Homo sapiens mRNA for annexin A13 (ANXA13 gene), isoform b

gtaaactttg	cctgtaggag	gactgatctc	ttaatgaaat	acagaaaaac	catctcagaa	60
aaaggaaaat	gggcaatcgt	catagccagt	cgtacaccct	ctcagaaggc	agtcaacagt	120
tgcctaaagg	ggactcccaa	ccctcgacag	togtgcagcc	tctcagccac	ccatcacgga	180
atggagagcc	agaggcccca	cagcctgcta	aagcgagcag	tcctcagggg	tttgatgtgg	240
atcgagatgc	caaaaaagctg	aacaaagcct	gcaaaggaat	ggggaccaat	gaagcagcca	300
tcattgaaat	cttatcgggc	aggacatcag	atgagaggca	acaaatcaag	caaaagtaca	360
aggcaacgta	cggcaaggag	ctggaggaag	tactcaagag	tgagctgagt	ggaaacttcg	420
agaagacagc	gttggccctt	ctggaccgtc	ccagcgagta	cgccgcccgg	cagctgcaga	480
aggctatgaa	gggtctgggc	acagatgagt	cogtcctcat	tgaggtcctg	tgcacgagga	540
ccaataagga	aatcatcgcc	attaaagagg	cctaccaaag	gctatttgat	aggagcctcg	600
aatcagatgt	caaaggtgat	acaagtggaa	acctaataaa	aatcctgggtg	tctctgctgc	660
aggctaatacg	caatgaagga	gatgacgtgg	acaaagatct	agctggtcag	gatgccaaag	720
atctgtatga	tgcaggggaa	ggccgctggg	gcactgatga	gcttgcgttc	aatgaagtcc	780
tggccaagag	gagctacaag	cagttacgag	ccacctttca	agcctatcaa	attctcattg	840
gcaaagacat	agaagaagcc	attgaagaag	aaacatcagg	cgacttgtag	aaggcctatt	900
taactctcgt	gagatgtgcc	caggattgtg	aggactatct	tgctgaacgt	ctgtacaagt	960
cgatgaaggg	tgcggggacc	gatgaggaga	cgttgattcg	catagtcgtg	accagggccg	1020
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acatggttcg	ctcagatacc	tccggggact	tccggaaact	gctagtagcc	ctcttgact	1140
gagccaagcc	agggcaatag	gaacacaggg	tggaaacacc	tttgtcaaga	gcacattcca	1200
aatcaaaactt	gcaaatgaga	ctcccgcacg	aaaaccctta	agagtcccg	attactttct	1260
tggcagctta	agtggcgtag	ccaggccaag	ctgtgtaagt	taagggcagt	aacgttaaga	1320
tgcgtgggca	gggcaccttg	aactctggct	tagcaagcat	ctaggctgcc	tcttcacttt	1380
cttttagcat	ggtaactgga	tgttttctaa	acactaatga	aatcagcagt	tgatgaaaaa	1440
actatgcatt	tgtaatggca	catttagaag	gatatgcata	acacaagtaa	ggtacaggaa	1500
agacaaaatt	aaacaattta	ttaattttcc	ttctgtgtgt	tcaatttgaa	agcctcattg	1560
ttaaattaaag ttgtggatta tgcctcta						

Homo sapiens serine protease inhibitor, Kazal type 1, mRNA (cDNA clone

cgcagaactt	cagccatgaa	ggtaacaggc	atctttcttc	tcagtgcctt	ggccctgttg	60
agtctatctg	gtaacactgg	agctgactcc	ctgggaagag	aggccaaatg	ttacaatgaa	120
cttaatggat	gcaccaagat	atatgaccct	gtctgtggga	ctgatggaaa	tacttatccc	180
aatgaatgcg	tgttatgttt	tgaaaatcgg	aaacgccaga	cttctatcct	cattcaaaaa	240
tctgggcctt	gctgagaacc	aaggttttga	aatcccatca	ggtcaccgcg	aggcctgact	300
ggccttattg	ttgaataaat	gtatctgaat	atcaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	360
aa						

## Homo sapiens B cell linker protein BLNK mRNA, alternatively spliced

ccttcgtggc	cgcagcctgc	actctcagaa	atcagacttg	agtggccgga	acccttgaga	60
ccagaggctt	accatgctgc	tccctaggag	ggccaggaac	tgctgacgtg	accactggac	120
agttattcgt	gtctcttaca	attaccaaac	agaatggaca	agcttaataa	aataaccgtc	180
cccgccagtc	agaagtttag	gcagcttcaa	aagatggtcc	atgatattaa	aaacaatgaa	240
ggtggaataa	tgaataaaat	caaaaagcta	aaagtcaaag	cacctccaag	tgttcctcga	300
agggactacg	cttcagagag	ccccgctgac	gaagaggagc	agtgggtccga	tgactttgac	360
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gagaacgctg	atgacagcta	cgagccgcct	ccagtagagc	aggaaaccag	gccggttcac	480
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ccacccttca	gcaagacact	tcccagtaag	cccagctggc	cttcagagaa	agcaaggctc	600
acctccaccc	tgccggccct	gactgctttg	cagaaacctc	aagtcccacc	caaaccctaaa	660
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attcatccca	cagaaagcag	ttcacctcca	cctgaaaaag	ctcccatggg	gaatagatca	780
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aaaaaaccaa	cgacaccact	gaagacaact	ccagttgcct	ctcaacagaa	tgcttcaagt	960
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ggttgagtta	tcatgctact	aatattttcc	aaataaatat	ttttattttt	aaaaaaaaaa	1800
aaaaaa						

Homo sapiens cDNA FLJ12768 fis, clone NT2RP2001576, weakly similar to  
HYPOTHETICAL 62.2 KD PROTEIN C4G8.12C IN CHROMOSOME I

agtctccgcg	ctgctgaggc	gcgcccggcc	gtccccaagg	cctccccctcc	gccctgcggt	60
ccgcgcgcct	ccggggcctc	ctggggaccct	ggccctcgcc	gggcaggacg	ccgccagcgc	120
tgaaggcgca	gcccggaggc	cgcgcggatg	cagatctgtg	gatccagcgt	agcatctgta	180
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gacatcctgg	gggttcaggc	cgcgcgggcc	tgggagtttt	acccagcag	ctcctgccgc	420
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tggttattat	gcaaacaagt	aatgtttgaa	atatataata	gcactgg		



Homo sapiens glycine amidinotransferase (L-arginine:glycine  
amidinotransferase), mRNA (cDNA clone MGC:1744 IMAGE:3010128), complete

```

cgggaaggct tggaccgacg cggcccagag gccaggaaca ttccgcgcgt ggaccagccg      60
ggccagggcg atgctgcggg tgcgggtgtct gcgcggcggg agccgcggcg ccgaggcggt      120
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aa

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Homo sapiens cDNA FLJ10143 fis, clone HEMBA1003281, weakly similar to  
POLIOVIRUS RECEPTOR PRECURSOR.

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agggaactcg	agagcagcct	ccatgggcac	acaggagggc	tgggtgcctgc	tgctctgcct	180
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acaacaacca	agccagttta	atggtaggaa	tttgtatttt	ttgcctttgt	tcagaataca	1680
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Homo sapiens leucine aminopeptidase 3, mRNA (cDNA clone IMAGE:2821948), partial cds

```

gtctggccgt gagacgtttc gggagccgga gtctctccac cgcagacatg acgaagggcc      60
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aagacaatgc ttagttcaga tactcaaaaa tgtcttcact ctgtcttaaa ttggacagtt     1560
gaacttaaaa ggtttttgaa taaatggatg aaaatctttt aacggagaca aaggatggta     1620
tttaaaaatg tagaacacaa tgaaatttgt atgccttgat ttttttttca ttccacacaa     1680
agatttataa aggtaaagtt aatatcttac ttgataagga tttttaagat actctataaa     1740
tgattaaaaa ttttagaact tcctaatac ttttcagagt atatgttttt cattgagaag     1800
caaaattgta actcagattt gtgatgctag gaacatgagc aaactgaaaa ttactatgca     1860
cttgtcagaa acaataaatg caacttggtg tgctcaaaaa aaaaaaaaaa aaaaaaaaaa     1920
aaaaaaaaaa aaaaaaaaaa

```

## Homo sapiens mRNA for protein phosphatase 4 regulatory subunit 2 (PPP4R2 gene)

actgtacaaa	tgctttat	ctattcaata	tttagaagac	agttataaac	aagatgcatt	60
caatagcatg	gtggcagatg	aacatcagga	aggaacatcc	atgagcttcc	atccacggaa	120
cctcaccatg	gatacgcttg	tgatcaaggg	cctgggtctcc	cctcaagaca	cggtcacaga	180
tcagaggcca	caccatccta	gcagtggagc	agtaccagct	gggacagggt	ccttctgtga	240
cacctgctgc	atcaccaggc	tgggtgaacg	gacacaattg	ccagaactca	cagaatagaa	300
gtatcagcac	cgaaacctca	caggaaaaat	ggtaagttct	aagtttctcc	attaatagta	360
actctcagat	taatctctgt	catccatcgc	ttctccaaga	aatgactttt	taggggtgatg	420
tgccaggcgc	catgttggag	ggctgggtgg	agcggcttgg	ggaggtgctc	actctgtcgg	480
tcttgctctc	tgcacgctt	cccccggtc	ccttcgtttc	ccccccccgg	tcgcctgcgt	540
gccggagtg	gtgcgaggg	gggggagggc	gtcggggggg	tggggggagg	cgttccggtc	600
cccaaaagac	ccgcggaggg	aggcggaggg	tgtgagggac	tcggggaagc	catggacgtc	660
gagagggtcc	aggaggcgct	gaaagatttt	gagaagaggg	ggaaaaagga	agtttgtcct	720
gtcctggatc	agtttctttg	tcatgtagcc	aagactggag	aaacaatgat	tcagtgggtcc	780
caattttaaag	gctattttat	tttcaaaactg	gagaaagtga	tggtatgattt	cagaacttca	840
gctcctgagc	caagaggtcc	tcccaaccct	aatgtcgaat	atattccctt	tgatgaaatg	900
aaggaaagaa	tactgaaaat	tgtcactgga	tttaattggt	tccctttttac	tatttcagcga	960
ctatgtgaat	tgtaacaga	tccaaggaga	aactatacag	gaacagacaa	atttctcaga	1020
ggagtagaaa	agaacgtgat	ggttggttagc	tgtgtttatc	cttcttcaga	gagaaacaat	1080
tccaatagtt	taaatcgaat	gaatggtgtg	atgtttcctg	gaaatgcacc	aagctatact	1140
gagaggtcta	atataaatgg	gcctgggaca	cccaggccac	gtaatcgacc	aaagggtttct	1200
ctgtcagccc	ccatgacaac	aaatgggtgg	cctgagagca	cagacagcaa	agaggcaa	1260
ttgcagcaaa	atgaggagaa	aactcacagt	gactcttcga	catctgaatc	agaagtttcc	1320
tcagtgaacc	ccttgagaaa	taaacatcca	gatgaagatg	ctgtggaagc	tgaggggcat	1380
gaggtaaaaa	gactcaggtt	tgacaaagaa	ggtgaagtca	gagaaacagc	cagtcaa	1440
acttccagcg	aaatttcttc	agttatggta	ggagaaacag	aagcatcatc	ttcatctcag	1500
gataaagaca	aagatagccg	ttgtaccggg	cagcactgta	cagaagagga	tgaagaagag	1560
gatgaagagg	aagaagaaga	gtcttttatg	acatcaagag	aaatgatccc	agaaagaaaa	1620
aatcaagaaa	aagaatctga	tgatgcotta	actgtgaatg	aagagacttc	tgaagaaaat	1680
aatcaa	atgg	aggaatctga	tgtgtctcaa	gctgagaaag	atgtgtctaca	1740
agtga	aaacg	aaggccctga	aagtaagtgg	ttcttctgac	tgccgtgaaa	1800
agtagga	aacc	aattcccagt	aaaactggaa	agaatctttc	cagaatcatc	1860
tgatgac	gaa	gccacagaag	tcaccgatga	accactggaa	caagactatt	1920
tacatgc	ag	attttacaca	cagttctgg	tttaacactg	tataaaactt	1980
aagtgc	acct	ttagttttac	aagtaaagca	ggttgtaaaa	taaagtactt	2040
tctg	aaag					

## Human mRNA for (2'-5') oligo A synthetase E (1,6 kb RNA)

gaggcagttc	tgttgccact	ctctctcctg	tcaatgatgg	atctcagaaa	taccccagcc	60
aaatctctgg	acaagttcat	tgaagactat	ctcttgccag	acacgtgttt	ccgcatgcaa	120
atcgaccatg	ccattgacat	catctgtggg	ttcctgaagg	aaagggtgctt	ccgaggtagc	180
tcctaccctg	tgtgtgtgtc	caaggtggta	aagggtggct	cctcaggcaa	gggcaccacc	240
ctcagaggcc	gatctgacgc	tgacctgggt	gtcttcctca	gtcctctcac	cacttttcag	300
gatcagttaa	atcgccgggg	agagttcatc	caggaaatta	ggagacagct	ggaagcctgt	360
caaagagaga	gagcactttc	cgtgaagttt	gaggtccagg	ctccacgctg	gggcaacccc	420
cgtgcgctca	gcttcgtact	gagttcgctc	cagctcgggg	aggggggtgga	gttcgatgtg	480
ctgcctgcct	ttgatgccct	gggtcagttg	actggcagct	ataaacctaa	cccccaaadc	540
tatgtcaagc	tcatcgagga	gtgcaccgac	ctgcagaaag	agggcgagtt	ctccacctgc	600
ttcacagaac	tacagagaga	cttcctgaag	cagcgcccca	ccaagctcaa	gagcctcatc	660
cgccatgtca	agcactggta	ccaaaattgt	aagaagaagc	ttgggaagct	gccacctcag	720
tatgccctgg	agctcctgac	ggctctatgt	tgggagcgag	ggagcatgaa	aacacatttc	780
aacacagccc	aaggatttcg	gacggctctg	gaattagtca	taaaactacca	gcaactctgc	840
atctactgga	caaagtatta	tgactttaaa	aaccccatta	ttgaaaagta	cctgagaagg	900
cagctcacga	aacccaggcc	tgtgatcctg	gacccggcgg	accctacagg	aaacttgggt	960
ggtaggagacc	caaagggttg	gaggcagctg	gcacaagagg	ctgaggcctg	gctgaattac	1020
ccatgcttta	agaattggga	tgggtcccca	gtgagctcct	ggattctgct	ggtgagacct	1080
cctgcttcct	ccctgccatt	catccctgcc	cctctccatg	aagcttgaga	catatagctg	1140
gagaccattc	tttccaaaga	acttacctct	tgccaaaggc	catttatatt	catatagtga	1200
caggctgtgc	tccatatttt	acagtcattt	tggtcacaat	cgagggtttc	tggaaatttc	1260
acatcccttg	tccagaattc	attcccctaa	gagtaataat	aaataatctc	taacacccaa	1320

aa

Homo sapiens A-kinase anchoring protein 18 beta mRNA, complete cds.

```
gctcgcagac tgtgctataa actgcaatit ctatttgagg tcctcacgga gaagaacacc      60
aggaaagaca gacaggacca gtgccatggg ccagctttgc tgctttcctt tctcaagaga      120
tgaaggaaaa atcagtgagt tggaaagctc gtctcttgca gtcctacaaa gatacagcaa      180
ggatataccc agttgggtcaa gtggtgaaaa gaacggaggg gagcccgatg acgctgaact      240
agtaaggctc agtaagaggc tgggtggagaa cgcggtgtct aaggctgtcc agcagtatct      300
ggaggaaaca cagaataaaa acaagccggg ggagggggagc tctgtgaaaa ccgaagcagc      360
tgatcagaat ggcaatgaca atgagaacaa caggaaatga gcccggaacg caggcccca      420
tgtctctgtg caaagcctcc ctgcttccct ctgctgagtc tag
```

Homo sapiens peptidyl prolyl isomerase H (cyclophilin H), mRNA (cDNA clone

cttctgcttc	cgggtcggag	ccatggcggt	ggcaaattca	agtcctgtta	accccggtgt	60
gttctttgat	gtcagtattg	gcggtcagga	agttggccgc	atgaagatcg	agctctttgc	120
agacgtttgtg	cctaagacgg	ccgagaactt	taggcagttc	tgcaccggag	aattcaggaa	180
agatgggggtt	ccaataggat	acaaaggaag	caccttccac	agggtcataa	aggatttcat	240
gattcaggggt	ggagattttg	ttaatggaga	tggtactgga	gtcgccagta	tttaccgggg	300
gccatttgca	gatgaaaatt	ttaaacttag	acactcagct	ccaggcctgc	tttccatggc	360
gaacagtgggt	ccaagtacaa	atggctgtca	gttctttatc	acctgctcta	agtgcgattg	420
gctggatggg	aagcatgtgg	tgtttgga	aatcatcgat	ggacttctag	tgatgagaaa	480
gattgagaat	gttcccacag	gccccaaaca	taagccaag	ctacctgtgg	tgatctcgca	540
gtgtgggggag	atgtagtcca	gacaaagact	gaatcaggcc	ttcccttctt	cttgggtggtg	600
ttcttgagta	agataatctg	gactggcccc	cgtctttgct	tcctgcctg	ctgctgcccc	660
atttgatcaa	gagaccatgg	aagtgtcaga	gattcagaat	ccaagattgt	ctttaagttt	720
tcaactgtaa	ataaagtttt	tttgtatgog	taaaaaaaaa	aaaaa		

Homo sapiens mRNA; cDNA DKFZp564C0362 (from clone DKFZp564C0362); complete cds

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gggggaggct gtgatggggtt gacagggtgcg tgacagtggg agctgctctc ggcacaagca      60
tgtacggcaa aggcaagagt aacagcagcg ccgtcccgtc cgacagccag gcccgggaga      120
agtttagcact ctacgtatat gaatatctgc tccatgtagg agctcagaaa tcagctcaaa      180
cattttttatc agagataaga tgggaaaaaa acatcacatt gggggaacca ccaggattct      240
tacattcttg gtgggtgtgta ttttgggatc tctactgtgc agctccagag agacgtgaaa      300
catgtgaaca ctcaagtgaa gcaaaaagcct tccatgatta cagtgtctgca gcagctccca      360
gtccagtgtc aggaaacatt cccccaggag atggcatgcc agtaggtcct gtaccaccag      420
ggttctttca gccttttatg tcacctcggg accctggagg tccaaggccc ccattgagga      480
tacctaatac ggcacttgga ggtgtcccag gaagtcagcc attactcccc agaggaatgg      540
atccaactcg acaacaagga catccaaata tgggtggggc aatgcagaga atgactcctc      600
caagaggaat ggtgccctta ggaccacaga actatggagg tgcaatgaga cccccactga      660
atgcttttagg tggccctgga atgcctggaa tgacatggg tccagggtgt ggtagacctt      720
ggccaaaccc aacaaatgcc aattcaatac catactcctc agcatctcct gggaattatg      780
taggtcctcc aggaggtgga gggccaccag gaacacccat catgcctagt ccagcagatt      840
caaccaactc tggtgataac atgtatactt taatgaatgc agtacctcct ggacctaaaca      900
gacctaatct tccaatgggc cctgggtcag atgggtcccat ggggtggatta ggaggaatgg      960
agtcacatca catgaatggc tcttttaggt caggagatat ggacagtatt tccaagaatt      1020
ctcccaataa tatgagcctg agtaatcaac cgggcactcc aagggatgat ggcgaaatgg      1080
ggggaaatct cttaaactcct tttcagagtg agagttactc ccctagcatg acaatgagcg      1140
tgtgatccat taccaagtct cctcatgaaa accacagtga gtcagccctt cacagaacta      1200
ctacggaaga aaattattca tcacagtgtg cagttaaaca aaggaatctc agtcacacca      1260
aaccaacctt ttcatttcct gctctctccc ctcttttgtg aagaaagcgg gtccagatgt      1320
gattcaaaca actgtacgga gtggcatatt agaattgccc taaactgaac tgcaaataat      1380
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catatacaca tacatacatt gaccacaggg acattgtaaa atattatcac atgacatctt      1500
aagtagaaat aagtagggac ttttattcca tccttttttt cacgtttaca ttttaattat      1560
tacaagttgc tcctgcccc tcctgaaact attttgtgct gtgtatatca ctgctttata      1620
taagttatct ttttaaggtga actcagatgt tatggttttg tatatgtctg caatcatgga      1680
taggaataaa atcgcttatt tgagagcttt caaaaaaaaa aaaaaaaaaa c

```



Human interferon-induced cellular resistance mediator protein (MxB) mRNA,  
complete cds.

```

aagagatgat ttctccatcc tgaacgtgca gcgagcttgt caggaagatc ggaggtgcc 60
agtagcagag aaagcatccc ccagctctga cagggagaca gcacatgtct aaggccacaca 120
agccttggcc ctaccggagg agaagtcaat tttcttctcg aaaatacctg aaaaaagaaa 180
tgaattcctt ccagcaacag ccaccgccat tcggcacagt gccaccacaa atgatgtttc 240
ctccaaactg gcagggggca gagaaggacg ctgctttcct cgccaaggac ttcaactttc 300
tactttgaa caatcagcca ccaccaggaa acaggagcca accaagggca atggggcccg 360
agaacaacct gtacagccag tacgagcaga aggtgcgccc ctgcattgac ctcatcgact 420
ccctgcgggc tctgggtgtg gagcaggacc tggccctgcc agccatcgcc gtcatcgagg 480
accagagctc gggcaagagc tctgtgctgg aggcactgtc aggagtgcg cttcccagag 540
gcagcggaat cgtaaccagg tgtccgctgg tgctgaaact gaaaaagcag ccctgtgagg 600
catgggcccg aaggatcagc taccggaaca ccgagctaga gcttcaggac cctggccagg 660
tggagaaaga gatacacaaa gccacagaacg tcatggccgg gaatggccgg ggcacagcc 720
atgagctcat cagcctggag atcacctccc ctgaggttcc agacctgacc atcattgacc 780
ttcccggtc caccaggtg gctgtggaca accagccccg agacatcgga ctgcagatca 840
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gtaacgtgga cattgccacc acggaggcgc tgagcatggc ccatgaggtg gacccggaag 960
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gtgttgttct gaagaaagtc cgagaagaga tttttaacct tctggggacg ccttcacaga 1920
atatgaagtt gaactctcat tttcccagta atgagctctc ggtttccctcc tttactgaaa 1980
taggcatcca cctgaatgcc tacttcttgg aaaccagcaa acgtctcgcc aaccagatcc 2040
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ggctcccttc agatccagtg gccatgcccc ctgcttccca tggttcactg tcatttgtgt 2820
tcccagcctc tccactcccc cgccagaaaag gagcctgagt gattctcttt tcttcttgtt 2880
tccctgatta tgatgagctt ccattgttct gttaagtctt gaagaggaat ttaataaagc 2940
aaagaaactt tttaaaaacg t

```

Human Ro/SSA ribonucleoprotein homolog (RoRet) mRNA, complete cds.

gacccacgcg	tccgaaaagc	tatggcctca	accaccagca	ccaagaagat	gatggaggaa	60
gccacctgct	ccatctgcct	gagcctgatg	acgaaccag	taagcatcaa	ctgtggacac	120
agctactgcc	acttgtgtat	aacagacttc	tttaaaaacc	caagccaaaa	gcaactgagg	180
caggagacat	tctgtgtcc	ccagtgtcgg	gtccatttc	atatggatag	cctccgaccc	240
aacaagcagc	tgggaagcct	cattgaagcc	ctcaaagaga	cggatcaaga	aatgtcatgt	300
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gagaagtctt	atctctggag	gctggagaaa	gaagaacaac	agactctgag	tagactgagg	660
gactatgagg	ctgggtctggg	gctgaagagc	aatgaactca	agagccacat	cctgggaactg	720
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ggtttaacca	gcacagagaa	aataatataa	atcccataag	ggcagacgtt	tggctgtgtt	1500
tcttcgctgt	catttcctta	gtagttagac	tagtgctgag	attttagtgg	atatataatt	1560
gatttatgtt	gaatatatgg	acttagcaac	taaaaatacc	acagatgggt	aacctggact	1620
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ttcagagaag	agcaaataga	ccttaacttc	attttgaaaa	agaccaaatt	accatacccg	2220
agtgaagta	gacaggacta	caactaaaac	ataaacaaca	ttaatgatga	ccataaaaag	2280
tcacaaaatt	gctaaatgtt	ataatttaga	gttgacataa	aaattgatgg	ccaggcatgg	2340
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aggagttcaa	caccagcctg	gccaacatgg	tgaaccctg	tctctactaa	aaatacaaaa	2460
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aaaaattaat	gtttactgat	atgtgttgaa	gtcctacaac	atcacctctg	agaataggag	2640
aatgaagca	acagttgtgt	ctagatgtca	gaggcatggc	tgggcctcca	tctctgcta	2700
agggagatat	aaaagagttc	aaactattgc	ccatgttccc	cagggtcaga	agttctaatt	2760
atgatgatag	aggctgggtt	gtaagtagta	agtgaagggt	agcagaatat	gccatctttg	2820
gcataagaag	tattttgagt	tgaagacaat	tgaagaaaaa	aaaaaaaaaa	aa	2872

Homo sapiens cDNA FLJ10465 fis, clone NT2RP1001616.

actctgctgc	cggtttctcg	gagcggcgct	gggcgaccag	agcagggctcg	agatgtccta	60
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Homo sapiens histone 2, H2aa, mRNA (cDNA clone MGC:2238 IMAGE:3536984), complete cds.

```

ccaggcagga gtttctctcg gtgactacta tcgctgtcat gtctggtcgt ggcaagcaag      60
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ttaatgctga aaaaaaaaaa aaaaaaa

```

Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

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Homo sapiens mRNA; cDNA DKFZp564K2478 (from clone DKFZp564K2478); complete

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aaaaaaaaaa	aaaa					1874

Homo sapiens cDNA FLJ20073 fis, clone COL02320.

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Homo sapiens cDNA FLJ10913 fis, clone OVARC1000209, weakly similar to Oryza sativa submergence induced protein 2A mRNA.

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aggagcattt	gcacttggac	gatgagatcc	gctacatcct	ggatggcagt	gggtacttcg	360
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tcagaatatt	ttgtaatgaa	aggatctaga	aagcaacttg	gaagtgtaaa	gagtcacctt	780
cattttctgt	aactcaatca	agactgggtg	gtccatggcc	ctgtgttagt	tcatgcattc	840
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taagtaaact	ctgtctcagt	tttaggatta	aaatacccac	cgggtggtgtg	atgatgccat	1560
ataccgcagg	gcttgcttct	gtcaagtgtg	actctatctc	agtaattaaa	ataagtgtctg	1620
atctactg						1628

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

```

aaacgacagg ggaaaggagg tctcactgag cacogtcca gcatccggac accacagcgg      60
cccttcgctc cacgcagaaa accacacttc tcaaaccttc actcaacact tccttcccca      120
aagccagaag atgcacaagg aggaacatga ggtggctgtg ctggggggcac ccccagcac      180
catccttcca aggtccaccg tgatcaacat ccacagcgag acctccgtgc cggaccatgt      240
cgtctggtcc ctgttcaaca ccctcttctt gaactggtgc tgtctgggct tcatagcatt      300
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cattggattc atcctgttac tggatttcgg ctctgtgaca gtctaccata ttatgttaca      480
gataatacag gaaaaacggg gttactagta gccgcccata gcctgcaacc tttgcaactc      540
actgtgcaat gctggccctg cacgctgggg ctggtgcccc tgcccccttg gtccctgcccc      600
tagatacagc agtttatacc cacacacctg tctacagtgt cattcaataa agtgcacgtg      660
cttgtgaaaa aaaaaaaaaa aaa                                     683

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Homo sapiens cDNA: FLJ22242 fis, clone HRC02528.

aacttttaaa	aactctcatt	ggagtaagtc	ttttcaagat	gatcctccac	aatggaggca	60
gcgttcctac	ttgtcatcac	acagctgaag	acattgtttc	ttaggtgtga	aatcggggac	120
aaaggacaaa	cagagacaca	cggcattgtt	catgggaggc	atcgtcacc	tcctgggtgt	180
tctgtgggaa	tttcctgtgt	gaggaaaacg	tggccacagg	gttggtgctgt	acccaccctt	240
ccccggcgag	atggccctcg	gcctgtgccg	ctgcttccac	cctcgccact	ccatggcagc	300
ttttgggtctg	tttcgggctc	tgccctctgc	cctgaactct	catccggctt	gtacctgcct	360
gctggacccc	tccacctgga	ggccagccca	tgtctcaggc	ccagccctag	cctcttctcc	420
tcaaattcta	agtgttttct	ctttagggtt	ccctggcttt	gtgaatggat	catgtgtctc	480
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tgatccccac	acatctttcc	agcctccctc	cccactccac	tcctgtctct	ctcctccacc	840
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catcacatca	cagaagtacc	tcctgcttct	ggttttaatt	agagccttcc	ccgattacat	960
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atgcctcggt	ggtttctgta	ttcctcatgg	tgccaaacac	agtgccttct	acattgcagg	1260
cgctgaataa	acatttttaa	agcaaaaaaa	aaaaaaaaaa			1300

ta77f02.x2 NCI\_CGAP\_HSC2 Homo sapiens cDNA clone IMAGE:2050107 3' similar  
to gb:L19779 HISTONE H2A.1 (HUMAN);, mRNA sequence.

```
tatacggctg cgagaagacg acagaagggg cacctgtgaa ctcaaaaggc tcttttcaga      60
gccacccacg ttttcaaata aaagagttgt taatgctggc cactcccaaa aaaaaaaaaa      120
aaaaaaaaaa agtcgtatcg a                                          141
```

H.sapiens centromere autoantigen C (CENPC) mRNA, complete cds.

cggatcgag	ctctcgcg	agtcgcctga	gacttaaggt	tattgcttgg	ccgcggcctg	60
gtattccggc	gattcggttc	ttgctcggt	tcctggagct	gtggtcctg	tgggcttcca	120
cctcagacag	ttgcgctggc	tcagcggggc	cggaacatgg	ctgcgtccgg	tctggatcat	180
ctcaaaaatg	gctacagaag	aagattttgt	cgaccttcca	gggcacgtga	cattaacaca	240
gagcaaggcc	agaatgttct	ggaaatctta	caagactggt	ttgaagaaaa	aagtcttgcc	300
aatgatttta	gtacaaattc	tacaaaatca	gtgcctaatt	caacacgcaa	aataaaaagac	360
acttgtattc	agtcaccaag	caaagagtgc	cagaaatcac	atccaaagtc	agttccagtt	420
tcttcaaaga	agaaagaagc	ctctctacag	tttgttgtag	aaccaagtga	agccacaaaac	480
agatcagttc	aggcccatga	agttcatcag	aaaattctgg	caactgatgt	tagttccaaa	540
aatacacctg	actcgaaaaa	aatatcaagt	agaaacataa	atgatcatca	cagtgaagct	600
gatgaagaat	tttacttatc	cgttggctca	ccttctgttc	ttttggatgc	aaaaacatct	660
gtatcacaaa	atgttattcc	atctagtgcc	aaaaagagag	agacttacac	ttttgaaaat	720
tcagtaaata	tgtgccttcc	aagtacagag	gtttcagtta	aaacaaaaaa	aagggttaaac	780
ttttagata	cagttatggt	aaagaaaaata	gaaatagata	ataaagtatc	agatgaagag	840
gataaaacat	cggaaggaca	agaaagaaaa	ccatcaggat	catctcagaa	tagaatacga	900
gattcagaat	atgaaattca	acgacaagct	aaaaaaagtt	tttcaacatt	gttttttagaa	960
acagtaaaac	gaaaaagtga	atccagtcctc	attgttaggc	atgcggcaac	tgctccacct	1020
cattcgtgtc	ctcccgatga	tacgaagttg	atagaggatg	aatttataat	tgatgagtcg	1080
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caacgcacaa	tatccccggc	tgagagcact	gcactctttc	aaggtagaaa	gtcaagagaa	1200
aagcatcata	atatattacc	taagactttg	gcaaatagaca	aacattccca	taaacctcac	1260
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aaaaaaaaaa	aa					3132

## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

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gccatcctcg	agagctgtct	agggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttgggtg	aatccccagg	cccttggttg	180
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ggtggag	aagatt	gagtt	ttaaa	agctaa	tctgt	3840
attaa	at	agtg	gtggc	ataca	aggc	3900
tctcag	tatatag	gcgaga	aagtt	tgatt	attgaa	3960
ctaaaaa	aagaag	cattaaa	aatatt	cta		4003



## Homo sapiens ornithine decarboxylase (ODC1) mRNA, complete cds.

gaattcctgg	agagttgcct	ttgtgagaag	ctggaaatat	ttctttcaat	tccatctctt	60
agttttccat	aggaacatca	agaaatcatg	aacaactttg	gtaatgaaga	gtttgactgc	120
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gatatgaaa	ccatcgtgaa	gacccttgct	gctaccggga	caggatttga	ctgtgctagc	360
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gccacgctca	gaaccagcag	gctccttttg	gaacgggcga	aagagctaaa	tatcgatggt	660
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agtttagctt	gaattaaggg	atttgggggg	accatgtaac	ttaattactg	ctagttttga	1560
aatgtctttg	taagagtagg	gtcgccatga	tgcagccata	tggagacta	gcataatggg	1620
cacacttatc	tgtgttctta	tggaaactat	ttgaatattt	gttttatatg	gattttttatt	1680
cactcttcag	acacgctact	caagagtgcc	cctcagctgc	tgaacaagca	tttgtagctt	1740
gtacaatggc	agaatggg	aaaagcttag	tgttgtgacc	tgttttttaa	ataaagtatc	1800
ttgaaataat	taggc					1815

Homo sapiens hephaestin (HEPH) mRNA, complete cds.

cctgtttccc	agagtaatgt	gggccatgga	gtcaggccac	ctcctctggy	ctctgctgtt	60
catgcagtc	ttgtggcctc	aactgactga	tggagccact	cgagtctact	acctgggcat	120
ccgggatgtg	cagtggaaact	atgctcccaa	gggaagaaat	gtcatcacga	accagcctct	180
ggacagtgac	atagtggcct	ccagcttctt	aaagtctgac	aagaaccgga	tagggggaaac	240
ctacaagaag	accatctata	aagaatacaa	ggatgactca	tacacagatg	aagtggccca	300
gcctgcctgg	ttgggcttcc	tggggccagt	gttgcaggct	gaagtggggg	atgtcattct	360
tattcacctg	aagaattttg	ccactcgtcc	ctataccatc	caccctcatg	gtgtcttcta	420
cgagaaggac	tctgaagggt	ccctataccc	agatggctcc	tctggggccac	tgaaagctga	480
tgactctgtt	cccccggggg	gcagccatat	ctacaactgg	accattccag	aaggccatgc	540
accacacgat	gctgaccagg	cgtgcctcac	ctggatctac	cattctcatg	tagatgctcc	600
acgagacatt	gcaactggcc	taattggggc	tctcatcacc	tgtaaaagag	gagccctgga	660
tgggaactcc	cctcctcaac	gccaggatgt	agaccatgat	ttcttcctcc	tcttcagtgt	720
ggtagatgag	aacctcagct	ggcatctcaa	tgagaacatt	gccacttact	gctcagatcc	780
tgcttcagtg	gacaaaagaag	atgagacatt	tcaggagagc	aataggatgc	atgcaatcaa	840
tggctttgtt	tttgggaatt	tacctgagct	gaacatgtgt	gcacagaaac	gtgtggcctg	900
gcacttgttt	ggcatgggca	atgaaattga	tgtccacaca	gcatttttcc	atggacagat	960
gctgactacc	cgtggacacc	acactgatgt	ggctaacatc	tttccagcca	cctttgtgac	1020
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ctttcgagat	ggcatgcagg	cactctacaa	ggccaagtct	tgtccatggg	cccctcctgt	1140
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ctatggcccc	atggggcatg	atgggagtac	tgggaagaat	ttgagagagc	caggcagtat	1260
ctcagataag	ttttccaga	agagctccag	ccgaattggg	ggcacttact	ggaaagtgcg	1320
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ctacaaccgt	gcctcccagc	cattcagcat	gcagcccat	ggggtctttt	atgagaaaga	1500
ctatgaaggc	actgtgtaca	atgatggctc	atcttaccct	ggcttgggtg	ccaagccctt	1560
tgagaaaagta	acataccgct	ggacagtccc	ccctcatgcc	ggctccactg	ctcaggatcc	1620
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cagcaatgcc	aatcaagcag	ctgctatgtt	ggatttccga	ctgctttcag	aggatattga	1860
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catgggcca	aatgtggatc	tacacaccat	ccactttcat	gcagagagct	tcctctatcg	3060
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ccatgctggc	atggagaccc	tcttcactgt	tttttctcga	acagaacact	taagccctct	3240
caccgtcatc	accaaagaga	ctgaaaaagc	agtgtccccc	agagacattg	aagaaggcaa	3300

tgtgaagatg	ctgggcatgc	agatcccat	aaagaatgtt	gagatgctgg	cctctgtttt	3360
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ccaacatcga	cagagaaagc	tacgacgcaa	taggaggtcc	atcctggatg	acagcttcaa	3480
gcttctgtct	ttcaaacagt	aacatctgga	gcctggagat	atcctcagga	agcacatctg	3540
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aactgaggcc	aagtgagctg	ttaagataac	ccacacttaa	actaaaggct	aagaatatag	3960
gcttgatggg	aaattgaagg	taggctgagt	attgggaatc	caaattgaat	tttgattctc	4020
cttggcagtg	aactactttg	aagaagtggg	caatgggttg	ttgctgccat	gagcatgtac	4080
aacctctgga	gctagaagct	cctcaggaaa	gccagttctc	caagttctta	acctgtggca	4140
ctgaaaggaa	tgttgagtta	cctcttcatg	ttttagacag	caaaccctat	ccattaaagt	4200
acttggttaga	acact					4215

## Human 18S rRNA gene, complete.

c c g t c c g t c c	g t c g t c e t c c	t c g c t t g c g g	g g c g c c g g g c	c c g t c e t c g a	g c c c c c n n n n	60
n c c g t c c g g c	c g c g t c g g g g	c c t c g c c g c g	c t c t a c c t a c	c t a c c t g g t t	g a t c c t g c c a	120
g t a g c a t a t g	c t t g t c t c a a	a g a t t a a g c c	a t g c a t g t c t	a a g t a c g c a c	g g c c g g t a c a	180
g t g a a a c t g c	g a a t g g g t c a	t t a a a t c a g t	t a t g g t t c c t	t t g g t c g t c c	g c t c c t c t c c	240
t a c t t g g a t a	a c t g t g g t a a	t t c t a g a g c t	a a t a c a t g c c	g a c g g g c g c t	g a c c c c c t t c	300
g c g g g g g g g a	t g c g t g c a t t	t a t c a g a t c a	a a a c c a a c c c	g g t c a g c c c c	t c t c c g g c c c	360
c g g c c g g g g g	g c g g g c c g c g	g c g g c t t t g g	t g a c t c t a g a	t a a c c t c g g g	c c g a t c g c a c	420
g c c c c c c g t g	g c g g c g a c g a	c c c a t t c g a a	c g t c t g c c c t	a t c a a c t t t c	g a t g g t a g t c	480
g c c g t g c c t a	c c a t g g t g a c	c a c g g g t g a c	g g g g a a t c a g	g g t t c g a t t c	c g g a g a g g g a	540
g c c t g a g a a a	c g g c t a c c a c	a t c c a a g g a a	g g c a g c a g g c	g c g a a a t t a	c c c a c t c c c g	600
a c c c g g g g a g	g t a g t g a c g a	a a a a t a a c a a	t a c a g g a c t c	t t t c g a g g c c	c t g t a a t t g g	660
a a t g a g t c c a	c t t t a a a t c c	t t t a a c g a g g	a t c c a t t g g a	g g g c a a g t c t	g g t g c c a g c a	720
g c c g c g g t a a	t t c c a g c t c c	a a t a g c g t a t	a t t a a a g t t g	c t g c a g t t a a	a a a g c t c g t a	780
g t t g g a t c t t	g g g a g c g g g c	g g g c g g t c c g	c c g c a g g c g	a g c c a c c g c c	c g t c c c c g c c	840
c c t t g c c t c t	c g g c g c c c c c	t c g a t g c t c t	t a g c t g a g t g	t c c c g c g g g g	c c c g a a g c g t	900
t t a c t t t g a a	a a a a t t a g a g	t g t t c a a a g c	a g g c c c g a g c	c g c c t g g a t a	c c g c a g c t a g	960
g a a t a a t g g a	a t a g g a c c g c	g g t t c t a t t t	t g t t g g t t t t	c g g a a c t g a g	g c c a t g a t t a	1020
a g a g g g a c g g	c c g g g g g c a t	t c g t a t t g c g	c c g c t a g a g g	t g a a a t t c t t	g g a c c g g c g c	1080
a a g a c g g a c c	a g a g c g a a a g	c a t t t g c c a a	g a a t g t t t t c	a t t a a t c a a g	a a c g a a a g t c	1140
g g a g g t t c g a	a g a c g a t c a g	a t a c c g t c g t	a g t t c c g a c c	a t a a a c g a t g	c c g a c c g g c g	1200
a t g c g g c g g c	g t t a t t c c c a	t g a c c c g c c g	g g c a g c t t c c	g g g a a a c c a a	a g t c t t t g g g	1260
t t c c g g g g g g	a g t a t g g t t g	c a a a g c t g a a	a c t t a a a g g a	a t t g a c g g a a	g g g c a c c a c c	1320
a g g a g t g g a g	c c t g c g g c t t	a a t t t g a c t c	a a c a c g g g a a	a c c t a c c c c g	g c c c g g a c a c	1380
g g a c a g g a t t	g a c a g a t t g a	t a g c t c t t t c	t c g a t t c c g t	g g g t g g t g g t	g c a t g g c c g t	1440
t c t t a g t t g g	t g g a g c g a t t	t g t c t g g t t a	a t t c c g a t a a	c g a a c g a g a c	t c t g g c a t g c	1500
t a a c t a g t t a	c g c g a c c c c c	g a g c g g t c g g	c g t c c c c c a a	c t t c t t a g a g	g g a c a a g t g g	1560
c g t t c a g c c a	c c c g a g a t t g	a g c a a t a a c a	g g t c t g t g a t	g c c c t t a g a t	g t c c g g g g c t	1620
g c a c g c g c g c	t a c a c t g a c t	g g c t c a g c g t	g t g c c t a c c c	t a c g c c g g c a	g g c g c g g g t a	1680
a c c c g t t g a a	c c c c a t t c g t	g a t g g g g a t c	g g g g a t t g c a	a t t a t t c c c c	a t g a a c g a g g	1740
a a t t c c c a g t	a a g t g c g g g t	c a t a a g c t t g	c g t t g a t t a a	g t c c c t g c c c	t t t g t a c a c a	1800
c c g c c c g t c g	c t a c t a c c g a	t t g g a t g g t t	t a g t g a g g c c	c t c g g a t c g g	c c c c g c c g g g	1860
g t c g g c c c a c	g g c c t g g c g g	a g c g c t g a g a	a g a c g g t c g a	a c t t g a c t a t	c t a g a g g a a g	1920
t a a a a g t c g t	a a c a a g g t t t	c c g t a g g t g a	a c c t g c g g a a	g g a t c a t t a		1969

Homo sapiens cell death regulator aven mRNA, complete cds.

gggcgtctcc	gcagctcggc	tcccgcgcgc	tcagcaccac	cagcggcgcc	agatgcaggc	60
ggagcgagga	gctcggggag	gccgtgggcg	gcggccaggc	cgcgccggc	ctggcggaga	120
tcgccacagc	gagcggcccg	gagcgcgagc	ggcggtagcc	agaggcggcg	gcggaggcgg	180
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tattgaaaaa	gaggtcaata	atgaaagtgg	agagtcacag	aggggaacag	atttcagtgt	480
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gactctggcc	cttggtttcta	gcctccttcc	ttgcagtgtt	tacaacatag	ccagtgttta	1440
cagcatagca	gatgctgctg	ctggttaaga	gaatagatgc	aaacaaggca	tgcatttggc	1500
caaaataaac	aatgctggt	ctgtccaaaa	aannaaaaaa	aaaaaaaaa		1549

Homo sapiens interferon, gamma-inducible protein 16, mRNA (cDNA clone MGC:9466 IMAGE:3914632), complete cds.

gcagaatagg	agcaagccag	cactagtcag	ctaactaagt	gactcaacca	aggccttttt	60
tccttggtat	ctttgcagat	acttcatttt	cttagcgttt	ctggagatta	caacatcctg	120
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gaaacaatga	ccccaaagagc	atgaagctac	cccaggaaca	gagtcagctt	ccaaatcctt	1500
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caggaagat	ggaagtgggtg	gtgcatggac	gactgaccac	aatcaactgt	gaggaaggag	2280
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gatctgtaat	tcatagtcac	atcaagggtca	tcaagaccag	gaaaaacaag	aaagacatac	2400
tcaatcctga	ttcaagtatg	gaaacttcac	cagacttttt	cttctaaaa	ctggatgtca	2460
ttgacgataa	tgtttatgga	gataagggtct	aagtgcctaa	aaaaatgtac	atatacctgg	2520
ttgaaatata	acactatata	tacacaccac	catatatact	agctgttaat	cctatggaat	2580
gggtatttgg	gagtgctttt	ttaatttttt	atagtttttt	tttaataaaa	tggcatattt	2640
tgcatctaca	acttctataa	tttgaaaaaa	taaataaaca	ttatcttttt	tgtgaaaaaa	2700
aaaaaaaa						2709

Homo sapiens guanylate binding protein 1, interferon-inducible, 67kDa, mRNA  
(cDNA clone MGC:3949 IMAGE:3606865), complete cds.

ggagtcagtg	atttgaacga	agtactttca	gtttcatatt	actctaaatc	cattacaaat	60
ctgcttagct	tctaaatatt	tcatcaatga	ggaaatccca	gccctacaac	ttcggaacag	120
tgaaatatta	gtccagggat	ccagtgagag	acacagaagt	gctagaagcc	agtgcctctg	180
aactaaggag	aaaaagaaca	gacaagggaa	cagcctggac	atggcatcag	agatccacat	240
gacaggccca	atgtgcctca	ttgagaacac	taatgggcga	ctgatggcga	atccagaagc	300
tctgaagatc	ctttctgcca	ttacacagcc	tatgggtggtg	gtggcaattg	tgggcctcta	360
ccgcacaggc	aaatcctacc	tgatgaacaa	gctggctgga	aagaaaaagg	gcttctctct	420
gggctccacg	gtgcagtctc	acactaaagg	aatctggatg	tgggtgtgtgc	cccaccccaa	480
gaagccaggc	cacatcctag	ttctgctgga	caccgagggt	ctgggagatg	tagagaaggg	540
tgacaaccag	aatgactcct	ggatcttgcg	cctggccgtc	ctcctgagca	gcaccttcgt	600
gtacaatagc	ataggaacca	tcaaccagca	ggctatggac	caactgtact	atgtgacaga	660
gctgacacat	agaatccgat	caaaatcctc	acctgatgag	aatgagaatg	aggttgagga	720
ttcagctgac	tttgtgagct	tcttcccaga	ctttgtgtgg	acactgagag	atcttctccct	780
ggacttgga	gcagatggac	aacccctcac	accagatgag	tacctgacat	actccctgaa	840
gctgaacaaa	gtgaccgtc	aaaaagatga	aacttttaac	ctgccagac	tctgtatccg	900
gaaattcttc	ccaaagaaaa	aatgctttgt	ctttgatcgg	cccgttcacc	gcaggaagct	960
tgcccagctc	gagaaactac	aagatgaaga	gctggacccc	gaatttgtgc	aa'caagtagc	1020
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ggcatgtacc	ataagctaaa	gaccagagcc	ttcctgtcac	ccctaaccac	ggcataattg	2040
aaacaatttt	agaatttgga	acaagcgtca	ctacatttga	taataattag	atcttgcac	2100
ataacaccaa	aagtttataa	aggcatgtgg	tacaatgac	aaaatcatgt	tttttcttaa	2160
aaaaaaaaa	aaaaaa					2176

Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

```

aaacgacagg ggaaaggagg tctcactgag caccgtccca gcatccggac accacagcgg      60
cccttcgctc cacgcagaaa accacacttc tcaaacottc actcaacact tccttcccca      120
aagccagaag atgcacaagg aggaacatga ggtggctgtg ctgggggcac cccccagcac      180
catccttcca aggtccaccg tgatcaacat ccacagcgag acctccgtgc ccgaccatgt      240
cgtctgggtcc ctgttcaaca ccctottott gaactggtgc tgtctgggct tcatagcatt      300
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cattggattc atoctgttac tggatttcgg ctctgtgaca gtctaccata ttatgttaca      480
gataatacag gaaaaacggg gttactagta gccgccata gcctgcaacc tttgcaactcc      540
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tagatacagc agtttatacc cacacacctg tctacagtgt cattcaataa agtgcacgtg      660
cttgtgaaaa aaaaaaaaaa aaa                                     683

```



## Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tgcgcgagcc	cctccgcaga	ctctgcgcgc	gaaagtttca	tttgcgtgat	60
gccatcctcg	agagctgtct	aggttaacgt	tgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttgggtg	aatccccagg	cccttggttg	180
ggcacaaagt	ggcaggatgt	ctcagtggtg	cgaacttcag	cagcttgact	caaaattcct	240
ggagcaggtt	caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	300
acagtgggtt	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ccttgaggaa	420
taacttcttg	ctacagcata	acataaggaa	aagcaagcgt	aatcttcagg	ataattttca	480
ggaagaccca	atccagatgt	ctatgatcat	ttacagctgt	ctgaaggaag	aaaggaaaat	540
tctggaaaaa	gcccagagat	ttaatcaggc	tcagtcgggg	aatattcaga	gcacagtgat	600
gttagacaaa	cagaaagagc	ttgacagtaa	agtcagaaat	gtgaaggaca	aggttatgtg	660
tatagagcat	gaaatcaaga	gcctggaaga	tttacaagat	gaatatgact	tcaaattgcaa	720
<del>aaecttgcag</del>	<del>aaagagaga</del>	<del>aagagaccaa</del>	<del>tgggtgtggca</del>	<del>aagagtgatc</del>	<del>agaaacaaga</del>	<del>780</del>
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ctaaaaaaca	aagaagacaa	cattaaaaac	aatattgttt	cta		4003

Homo sapiens phospholipid scramblase 1, mRNA (cDNA clone IMAGE:4253596), complete cds.

gagaagggtg	cgcagcagct	gtgcccggca	gtctagaggc	gcagaagagg	aagccatcgc	60
ctggccccgg	ctctctggac	cttgtctcgc	tcgggagcgg	aaacagcggc	agccagagaa	120
ctgttttaaat	catggacaaa	caaaactcac	agatgaatgc	ttctcaccgc	gaaacaaaact	180
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ttataaatgc	cattaataaa	ggagtaaaaa	gccaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1140
aaa						1143

Homo sapiens metalloprotease disintegrin cysteine-rich protein, secreted form mRNA, complete cds.

gcgagaagag	cagacaccgt	gtccttgga	tcaccagca	tgttgcaagg	tctcctgcc	60
gtcagtcctc	tcctctctgt	tgcagtaagt	gctataaaag	aactccctgg	ggtgaagaag	120
tatgaagtgg	tttatcctat	aagacttcat	ccactgcata	aaagagaggc	caaagagcca	180
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Homo sapiens matrix metalloproteinase 7 (matrilysin, uterine), mRNA (cDNA clone MGC:3913 IMAGE:3545760), complete cds.

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aaatgccaac agtttagaag ccaaactcaa ggagatgcaa aaattctttg gcctacctat      240
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## Homo sapiens cDNA FLJ10650 fis, clone NT2RP2005853

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## Homo sapiens transcription factor ISGF-3 mRNA, complete cds

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Homo sapiens RNA helicase (RIG-I) mRNA, complete cds.

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aaaaa						3065



Homo sapiens melanoma differentiation associated protein-5 (MDA5) mRNA,  
complete cds.

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aaagcactgc	aaaagaagtg	tgccgactat	caaataaatg	gtgaaatcat	ctgcaaatgt	3060
ggccaggctt	ggggaacaat	gatggtgcac	aaaggcttag	atttgccctg	tctcaaaata	3120
aggaattttg	tagtggtttt	caaaaataat	tcaacaaaga	aacaatacaa	aaagtgggtg	3180
gaattaccta	tcacattttc	caatcttgac	tattcagaat	gctgtttatt	tagtgatgag	3240

gattagcact	tgattgaaga	ttcttttaaa	atactatcag	ttaaacattt	aatatgatta	3300
tgattaatgt	attcattatg	ctacagaact	gacataagaa	tcaataaaat	gattgtttta	3360
ctctgaaaaa	aaaaaaaaaa					3380

Homo sapiens signal transducer and activator of transcription 1, 91kDa, transcript variant beta, mRNA (cDNA clone MGC:3493 IMAGE:3627218), complete cds.

tcgcttttcc	gcgagagtc	tgcggagggg	ctcggctgca	ccgggggggat	cgcgctggc	60
agaccccaga	ccgagcagag	gcgacccagc	gcgctcgga	gaggctgcac	cgccgcgccc	120
ccgcctagcc	cttccggatc	ctgcgcgcag	aaaagtttca	tttgctgtat	gccatcctcg	180
agagctgtct	aggttaacgt	tcgcaactctg	tgtatataac	ctcgacagtc	ttggcaccta	240
acgtgctgtg	cgtagctgct	cctttgggtg	aatcccagag	cccttggttg	ggcacaaggt	300
ggcaggatgt	ctcagtggtg	cgaacttcag	cagcttgact	caaaattcct	ggagcagggt	360
caccagcttt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	acagtgggtta	420
gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	ccgttttcat	480
gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	taacttcttg	540
ctacagcata	acataaggaa	aagcaagcgt	aatcttcagg	ataattttca	ggaagaccca	600
atccagatgt	ctatgatcat	ttacagctgt	ctgaaggaa	aaaggaaaat	tctggaaaaa	660
<del>gcccagagat</del>	<del>ttaatcagge</del>	<del>teagtegggg</del>	<del>aatatteaga</del>	<del>geaacgtgat</del>	<del>gttagaaaaa</del>	<del>720</del>
cagaaagagc	ttgacagtaa	agtcagaaat	gtgaaggaca	aggttatgtg	tatagacat	780
gaaatcaaga	gcctggaaga	tttacaagat	gaatatgact	tcaaatagca	aaccttgacg	840
aacagagaac	acgagaccac	tggtgtggca	aagagtgtat	agaaacaaga	acagctgtta	900
ctcaagaaga	tgtatttaac	gcttgacaat	aagagaaagg	aagtagttca	caaaataata	960
gagttgctga	atgtcactga	acttaccag	aatgcctga	ttaatgatga	actagtggag	1020
tggaagcgga	gacagcagag	cgctgtatt	ggggggccgc	ccaatgcttg	cttggatcag	1080
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caagtgttat	gggaccgcac	cttcagtcct	ttccagcagc	tcattcagag	ctcgtttgtg	1260
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tcagaagtgc	tgagttggca	gttttcttct	gtcaccacaaa	gaggtctcaa	tgtggaccag	1860
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tggacgaggt	tttgtaagga	aaatataaat	gataaaaatt	ttcccttctg	gctttggatt	1980
gaaagcatcc	tagaactcat	taaaaaacac	ctgctccctc	tctggaatga	tgggtgcac	2040
atgggcttca	tcagcaagga	gcgagagcgt	gccctgttga	aggaccagca	gccggggacc	2100
ttcctgctgc	ggttcagtga	gagctcccg	gaaggggcca	tcacattcac	atgggtggag	2160
cggctccaga	acggaggcga	acctgacttc	catgcggttg	aaccctacac	gaagaaagaa	2220
ctttctgctg	ttactttccc	tgacatcatt	cgcaattaca	aagtcattgg	tgctgagaat	2280
attcctgaga	atcccctgaa	gtatctgtat	ccaaatattg	acaaagacca	tgcctttgga	2340
aagtattact	ccaggccaaa	ggaagcacca	gagccaatgg	aacttgatgg	ccctaaagga	2400
actggatata	tcaagactga	gttgatttct	gtgtctgaag	tgttaagtga	cacagaagag	2460
tgacatgttt	acaaacctca	agccagcctt	gctcctggct	ggggcctgtt	gaagatgctt	2520
gtattttact	tttccattgt	aattgctatc	gccatcacag	ctgaacttgt	tgagatcccc	2580
gtgttactgc	ctatcagcat	tttactactt	taaaaaaaaa	aaaaaaaaaa		2629

Homo sapiens cDNA: FLJ21350 fis, clone COL02751.

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ggaggataat	tggatgaagg	attatttttct	tctttgttta	tgtgcaagaa	atgaaaataa	120
ggaattgctt	tgatcagaca	acttctttatc	tttgtggtag	aaacagaact	gcccttcttg	180
gagtggctct	gcctctgaga	tcactacagg	ggagacagca	tgccctgttc	agctggctga	240
atatttggca	acaatctcct	gaagcagctg	gaattgacaa	gaagtactgg	agattagctc	300
gggccaacc	cttacatctg	gcctgactac	tgctgcagtc	tgccctcaact	taccctctaa	360
gctggggaga	tgccaccac	ccacatcttt	gctacacatg	ccatcatgag	ctagagttca	420
ccctttctcc	ttaaagccct	atttactttt	ctacttcaac	tttaaaacaa	aattaaaatg	480
tgaggatata	cctgaatttt	aaaaagcatg	aagtaaaat	gcaaattagt	atagtttggt	540
taatacatta	catatagacc	taaagaaagt	tcacacaggt	taatcatttg	tcacatcatt	600
ctatacccag	ggctatcagc	tatcaatttt	cctttttttt	tttttttttt	tttaattcag	660
gatccagctc	tgtcacccag	gctggagtg	agatcaaaag	tatcatttct	cttacttcaa	720
attattacat	tttattctgt	acattgatto	tgaactccta	atataatatt	tatgtcctgt	780
atgtgcaggc	cattggtttt	tttaaagtca	taaatcaaaa	tgatgccaga	aaatcaaaga	840
tgcccaagat	gttgggcttc	tcttttgcca	gccacattgg	tagcactctc	ctgccctggc	900
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gcgcctgtag	tcccagctac	tctggaggct	gaggcaggag	aatggcgtga	acccaggagg	1680
cggagcttgc	agtgatccga	gatcacacca	ctgcactgca	gtctgggcaa	cagagcgaga	1740
ctccatctca	aaaaaaaaa	aaaaa				1765

## Homo sapiens IFI16b (IFI16b) mRNA, complete cds.

gggaatagca	gaataggagc	aagccagcac	tagtcagcta	actaagtgc	tcaaccaagg	60
ccttttttcc	ttgttatctt	tgcatagact	tcatttttct	agcggttctg	gagattacaa	120
catcctgcgg	ttccgtttct	gggaacttta	ctgattttatc	tccccctca	cacaaataag	180
cattgattcc	tgcatttctg	aagatctcaa	gatctggact	actgttgaaa	aaatttccag	240
tgaggctcac	ttatgtctgt	aaagatggga	aaaaaataca	agaacattgt	tctactaaaa	300
ggattagagg	tcacatga	ttatcatttt	agaatgggta	agtccttact	gagcaacgat	360
ttaaaactta	atttaaaaaat	gagagaagag	tatgacaaaa	ttcagattgc	tgacttgatg	420
gaagaaaagt	tccgaggtga	tgctgggttg	ggcaactaa	taaaaatttt	cgaagatata	480
ccaacgcttg	aagactggc	tgaaactctt	aaaaagaaa	agttaaaagt	aaaaggacca	540
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accaaagaaa	aggctggacc	caaagggagt	aagggtgtccg	aggaacagac	tcagcctccc	720
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gccagcgtaa	ctcctaaaaa	caatcagctt	tgctcacaaa	ctaaaggaag	ttttgtgaat	2160
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tgtgctgttt	tctctacact	cagtttaaat	gactgtacat	atatatgtgg	ttggagaggt	3060
aatgaataat	gagctacaaa	ccagaacaat	gtgactagat	agataggatg	atctagaatt	3120
gagaactggc	agattgggaa	aagagtggct	atatggagaa	agaaagaaag	tagttccata	3180
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gccataaaaa	gcctctattc	tctgctcttg	ggcagggtgtg	aaagaaacct	accaaattaa	3300
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aagaattagg	aaagtaatca	attttttttc	ctagaaaaaa	tccagcagac	aaagaacttc	3420
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gataatacag	ggaagatgga	agtgggtggtg	catggacgac	tgaccacaat	caactgtgag	3720
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atacctgggt	gaaatacaac	actatacata	cacaccacca	tatatactag	ctgttaatcc	4020
tatggaatgg	ggtattggga	gtgctttttt	aattttttcat	agtttttttt	taataaaatg	4080
gcatattttg	catctacaac	ttctataatt	tgaaaaaata	aataaacatt	atcttttttg	4140
tgaaaaaaa	a					4151

Homo sapiens mRNA for STAT induced STAT inhibitor-2, complete cds.

gggcggccac	ctgtctttgc	cgcggtgacc	cttctctcat	gaccctgcgg	tgccttgagc	60
cctccgggaa	tggcggggaa	gggacgcgga	gccagtgggg	gaccgcgggg	tcggcggagg	120
agccatcccc	gcaggcggcg	cgtctggcga	aggccctgcg	ggagctcggg	cagacaggat	180
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gaactttctt	gattagagat	agctcgcatt	cagactacct	actaacaata	tctgttaaaa	300
catcagctgg	accaactaat	cttcgaatcg	aataccaaga	cggaaaattc	agattggact	360
ctatcatatg	tgtcaaatcc	aagcttaaac	aatttgacag	tgtgggtcat	ctgatcgact	420
actatgttca	gatgtgcaag	gataagcgga	caggtccaga	agcccccg	aacggcactg	480
ttcaccttta	tctgaccaa	ccgctctaca	cgtcagcacc	atctctgcag	catctctgta	540
ggctcaccat	taacaaatgt	accggtgcca	tctggggact	gcctttacca	acaagactaa	600
aagattactt	ggaagaatat	aaattccagg	tataaatgtt	tctctttttt	taaacatgtc	660
tcacatagag	tatctccgaa	tgcagctatg	taaaagagaa	ccaa		704

Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tgcgagagcc	cctccgcaga	ctctgcgccg	gaaagtttca	tttgcgtgat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttggttg	aatccccagg	cccttggttg	180
ggcacaaggt	ggcaggatgt	ctcagtggtta	cgaacttcag	cagcttgact	caaaattcct	240
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acagtggtta	gaaaagcaag	actgggagca	cgctgccaat	gatgtttcat	ttgccaccat	360
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Homo sapiens pancreas sodium bicarbonate cotransporter mRNA, complete cds.

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Homo sapiens interferon stimulated T-cell alpha chemoattractant precursor, mRNA, complete cds.

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Homo sapiens mRNA; cDNA DKFZp586J0323 (from clone DKFZp586J0323)

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Homo sapiens cDNA FLJ20637 fis, clone KAT03212.

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ttcacttttg	ctgcttcact	gccttgtgct	ccaataaatc	cactccttca	ccacccaaaa	1980
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				2010

*Homo sapiens* sodium bicarbonate cotransporter (HNBC1) mRNA, complete cds.

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Human BRCA1-associated RING domain protein (BARD1) mRNA, complete cds.

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## Human 18S rRNA gene, complete.

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ttactttgaa	aaaattagag	tgttcaaagc	aggcccagac	cgctggata	ccgcagctag	960
gaataatgga	ataggaccgc	ggttctatct	tgttggtttt	cggaactgag	gccatgatta	1020
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ccgcccgtcg	ctactaccga	ttggatggtt	tagtgaggcc	ctcggatcgg	ccccgccggg	1860
gtcggcccac	ggcctggcgg	agcgtgaga	agacggtcga	acttgactat	ctagaggaag	1920
taaaagtcgt	aacaaggttt	ccgtaggtga	acctgcggaa	ggatcatta		1969

## Human mRNA for 56-KDa protein induced by interferon

ccagatctca	gaggagcctg	gctaagcaaa	accctgcaga	acggctgcct	aatttacagc	60
aaccatgagt	acaaatggtg	atgatcatca	ggccaaggat	agtctggagc	aattgagatg	120
tcactttaca	tgggagttat	ccattgatga	cgatgaaatg	cctgatttag	aaaacagagt	180
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ctatgtgaaa	cacctgaaag	gccagaatga	ggaagccctg	aagagcttaa	aagaagctga	300
aaacttaatg	caggaagaac	atgacaacca	agcaaatgtg	aggagtctgg	tgacctgggg	360
caactttgcc	tggatgtatt	accacatggg	cagactggca	gaagcccaga	cttacctgga	420
caaggaggag	aacatttgca	agaagctttc	aaatcccttc	cgctatagaa	tggagtgtcc	480
agaaatagac	tgtgaggaag	gatgggcctt	gctgaagtgt	ggaggaaaga	attatgaacg	540
ggccaaggcc	tgctttgaaa	aggtgcttga	agtggaccct	gaaaaccctg	aatccagcgc	600
tgggtatgcg	atctctgcct	atcgctgga	tggctttaaa	ttagccacaa	aaaatcacia	660
gccattttct	ttgcttcccc	taaggcaggg	tgtccgctta	aatccagaca	atggatatat	720
taaggttctc	cttgccctga	agcttcagga	tgaaggacag	gaagctgaag	gagaaaagta	780
cattgaagaa	gctctagcca	acatgtcctc	acagacctat	gtctttcgat	atgcagccaa	840
gtttttaccga	agaaaaggct	ctgtggataa	agctcttgag	ttattaaaaa	aggccttgca	900
ggaaacaacc	acttctgtct	tactgcatca	ccagataggg	ctttgctaca	aggcacaat	960
gatccaaatc	aaggaggcta	caaaagggca	gcctagaggg	cagaacagag	aaaagctaga	1020
caaatgata	agatcagcca	tatttcattt	tgaatctgca	gtggaaaaaa	agccqacatt	1080
tgaggaggct	catctagacc	tggcaagaat	gtatatagaa	gcaggcaatc	acagaaaagc	1140
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catcacattc	tactatggtc	ggtttcagga	atttcaaaaag	aaatctgacg	tcaatgcaat	1260
tatccattat	ttaaaagcta	taaaaataga	acaggcatca	ttaacaaggg	ataaaaagtat	1320
caattctttg	aagaaattgg	ttttaaggaa	acttcggaga	aaggcattag	atctggaaag	1380
cttgagcctc	cttgggttcg	tctacaaatt	ggaaggaaat	atgaatgaag	ccctggagta	1440
ctatgagcgg	gccctgagac	tggctgctga	ctttgagaac	tctgtgagac	aaggctcctta	1500
ggcaccacaga	tatcagccac	tttcacattt	catttcattt	tatgctaaca	tttactaatc	1560
atcttttctg	cttactgttt	tcagaaacat	tataattcac	tgtaatgatg	taattcttga	1620
ataataaata	tgacaaaata	tt				1642

qx82h04.x1 NCI\_CGAP\_GC6 Homo sapiens cDNA clone IMAGE:2009047 3', mRNA  
sequence.

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ttttttgaaa	caatgataag	aaattttttt	ttaggcaata	agatactaag	ttgtatcaac	120
aaactgcatg	ggatatttcc	acaaggagag	gattttgttc	cctgatctag	tttacgtgac	180
attttccctt	atgcttgctt	tctctgagct	gactcttctt	aaactgacct	agatggtacc	240
ctatttcaac	tgactcagag	ttcattcaaa	aatatgatat	ggtgacttgg	cttcactgac	300
atgaaatcca	ggcactctct	ctactcttgc	tcacattctt	ccttgcccaa	ggttccagcg	360
tgattttagg	atatcttatg	ccaaccagct	gtgccgtcac	ttctcagaga	tgtagggcca	420

Human interferon-induced cellular resistance mediator protein (MxA) mRNA,  
complete cds.

ggaattctgt	ggccatactg	cgaggagatc	ggttccgggt	cggaggctac	aggaagactc	60
ccactccctg	aaatctggag	tgaagaacgc	cgccatccag	ccaccattcc	aaggagggtgc	120
aggagaacag	ctctgtgata	ccattttaact	tgttgacatt	actttttattt	gaaggaaactg	180
atatttagagc	ttacttttgca	aagaagggaag	atgggttggtt	ccgaagtggga	catcgcaaaa	240
gctgatccag	ctgctgcatc	ccaccctcta	ttactgaatg	gagatgctac	tgtggcccgag	300
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ctggtggaca	aaggaactga	agacaagggt	gtggacgtgg	tgcggaacct	cgtgttccac	1020
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gatctgctgg	aggaaggaaa	ggccacgggt	ccctgcctgg	cagaaaaact	taccagcgag	1200
ctcatcacac	atatctgtaa	atctctgccc	ctgttagaaa	atcaaatcaa	ggagactcac	1260
cagagaataa	cagaggagct	acaaaagtat	ggtgtcgaca	taccggaaga	cgaaaatgaa	1320
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caaggagagg	aaactgtagg	ggaggaagac	attcggctgt	ttaccagact	ccgacacgag	1440
ttccacaaat	ggagtacaat	aattgaaaac	aattttcaag	aaggccataa	aatttttagt	1500
agaaaaatcc	agaaatttga	aaatcagtat	cgtggtagag	agctgccagg	ctttgtgaat	1560
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gtctactgcc	aggaccagggt	atacaggggt	gcattgcaga	aggtcagaga	gaaggagctg	1860
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gactcttcca	tggaggagat	ctttcagcac	ctgatggcct	atcaccagga	ggccagcaag	1980
cgcatctcca	gccacatccc	tttgatcatc	cagttcttca	tgctccagac	gtacggccag	2040
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aaggagcggga	gcgacaccag	cgacaagcgg	aagttcctga	aggagcggct	tgcacggctg	2160
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aacatcacag	cttatttcct	cattttttata	atgtcccttc	acaaaaccag	tgttttagga	2580
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atttctagca	g					2651

Homo sapiens cDNA: FLJ21726 fis, clone COLF1088.

agtgc	atgga	gagag	ggt	tttct	aaag	atggg	agaaa	tgacag	cgtg	catgt	gtgcc	60
gatgg	gagtc	acccca	taga	gaagga	aagaa	agcagt	gaca	gaggag	agga	ctgct	ccttg	120
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agaaaga	aagc	acactt	ggtt	catcc	ctggc	agcagg	aggg	aaggc	gtggg	tgtagg	gaac	240
agggc	gtgtg	gagggg	gatct	tttgg	gtgct	cttatt	tttct	cagtga	aaata	caggac	gcgaa	300
gagcag	cagt	ggacgg	tgag	aatggg	gatg	ttccca	tcca	gctttc	caggg	tcccat	gtga	360
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aacgcc	gagg	aagcc	gcctt	gtggag	gggat	ctggg	ccgca	aagtc	cctggc	atcct	acttg	1260
gagacag	ccg	aggagg	cgggt	gaccct	gggc	gggag	cctgg	atgaaa	actg	tcagg	aggtg	1320
ctgaaat	tttg	ccacc	cgga	gaatg	gcttc	ctgct	gcagt	acctg	ggtggc	tatccc	catg	1380
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cctacag	ctt	ctgct	cctcc	ccagc	cctgg	ctggg	gccag	tgccct	gctc	atagg	cagtg	1620
ggccct	gctc	accct	gctcc	ctcct	gccac	ctccc	actga	tgggc	ggcag	gctgg	ctact	1680
cactgc	gctg	ctcagg	ggagt	cccag	cctgc	ttcatt	tttct	tcttg	ctcta	ccgtc	ctgtt	1740
ctttcag	agc	agggg	catgg	tttcc	ttcca	aatatt	ttctg	ctgct	tttat	aaagt	gtacac	1800
ccttttt	tttt	aattata	aaaaa	atggg	ctcgt	gctaaaa	aaaaa	aaaaa	aaaaa	aaaaa	aaaaa	1859

xw86e11.x1 NCI\_CGAP\_Pan1 Homo sapiens cDNA clone IMAGE:2834924 3', mRNA sequence.

ttataagaaa	tttatttttt	cacagataca	gaacataaat	ccaagaaaaa	ttattattat	60
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aacctttcac	atatctattt	ttttccttgt	gcacagttga	taatttcctc	ccttagattc	300
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aagaggaata	ttggaccact	gaaaatctca	accaacgcta	atattaggag	cacacgtacc	420
atgaggaaga	gaagggatgg	ggaaaccaag	atggcagagt	tagagcaaca	aagttagtaa	480
catgagagtt	tcccagcaat	ttgagtaaga				510



Human 71 kDa 2'5' oligoadenylate synthetase (p69 2-5A synthetase) mRNA,  
complete cds.

cggcagccag	ctgagagcaa	tgggaaatgg	ggagtcccag	ctgtcctcgg	tgccctgctca	60
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caaggattta	ccctcgctgt	ctccgtatgc	cctggagctg	cttacgggtgt	atgcctggga	720
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agctcaaac	tggttgactt	ctcccaacct	ggataatgag	ttacctgcac	catcttggaa	1020
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caacgaaagt	gtcagctttg	atgtgcttcc	tgcccttaat	gcactgggtc	agctgagttc	1500
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gtgatacaat	aaagaatgta	tctgg				2905

Homo sapiens cDNA FLJ20035 fis, clone COL00213.

aatctgtggt	ttttgctcaa	aactcagttt	atctggatgc	gttgaattat	agacagatgt	60
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oattccccc	aataggaaaa	ctcataaaat	ccaatgttcc	tgagctgaga	ggacacttcc	180
ctctcagcat	aacctgtgtc	ctgcgactca	tgctgctggc	ttccaaggga	gatgaccag	240
aggatgccaa	ggcaaagggtg	ctatcagttc	taaagcattc	attgctgtcc	ttcaagcaac	300
ccagagtcac	ggacatgtta	aaactttact	tcctgttttc	tttgcagttc	ctggtgaaag	360
agggctatatt	agatcaagaa	ggtaactcta	tgggggtttgc	tggaacttgtg	tcacatttgc	420
attatcatga	accttcta	cttgtttttg	tgagttttct	tgtaaattggc	ctcttccatg	480
atctctgtca	gccaaccagg	aaaggctcaa	aacatttttc	tcaagacgtt	atggaaaagc	540
tagtattagt	attggcacat	ctctttggaa	gaagatattt	tccaccaaag	ttccaggatg	600
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gagtagcaat	ttcaccattt	gtttgtctgt	ctgggaactt	tgatgatgat	ttgcttcgac	900
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tggattttcta	caaacatggg	tccttgatag	gattagtcca	ggataacagg	atgaatgaag	1080
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caacttttttg	ggaaaagtta	aacaaagtct	aaaaacaaag	tctatgcaaa	ccactcaaaa	1260
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ggattgacta	aaaaaatgog	agaatgttgt	atgtgactga	ataacaattt	ttactctgcg	1560
aagccaaagt	aaatataata	ttatcagtaa	ctttatcccc	agtgtcagta	tttataaaat	1620
gtttattaag	gctagaaaaa	atgaatacaa	tatcctgaag	gtgaaatata	ttctcttcaa	1680
ttagcataaa	tatgattttac	ataagtttagc	tatacagcta	ttgagatagt	actttctagt	1740
aaacttaaac	tactttttta	acatacattt	tgtgttgatt	taacaaaaat	atagagaatg	1800
atgtgtttta	ttgttaattgt	atataagtga	ctggaaaagc	acaaagaaat	aaagtgggtt	1860
cgatctgttt	acaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaa		1906

Homo sapiens monocarboxylate transporter 2 (hMCT2) mRNA, complete cds.

ggaaacttct	gcttcaggtg	gggagaggag	tccatagatc	agggaaactt	atgtcttggg	60
gaaatggaag	accatgtttc	taaacacctg	tgcgcagggt	acttgaattt	ccactagagg	120
agcagaaatg	ccaccaatgc	caagtgcctc	acctgtgcat	ccacctccag	atggaggatg	180
gggttggatt	gtggttggag	cagcttttat	ctccattgga	ttttcctatg	cattccccaa	240
agctgtcacc	gtattcttca	aagaaattca	gcaaataattc	cacactacct	acagtgaat	300
agcatggatt	tcatccatta	tgctggctgt	tatgtacgca	ggaggctcctg	taagtagtgt	360
tttgggtgaat	aaatacggca	gccggccggg	ggtgatagca	ggaggcttat	tatgctgtct	420
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aagttcattg	gctcctttca	atcagtaact	ttttaatact	tttggctgga	aaggaagctt	660
cctgattttg	ggaagtctac	ttttgaatgc	ctgtgtggct	ggttccctca	tgagaccctt	720
tggacccaat	caaaccactt	ctaagtctaa	aaataagact	ggcaaacacag	aagatgattc	780
aagcccaaaag	aaaatcaaaa	cgaagaaatc	aacttgggaa	aaagttaata	agtatttaga	840
ttttctccctt	tttaagcata	gaggattttt	gatatactctg	tctggaaatg	tcattatggt	900
cctagggtttt	tttgcccca	ttatattctt	ggctccatat	gctaaagacc	aaggaattga	960
tgagtactcg	gcagcttttc	tgctatctgt	tatggctttc	gttgatatgt	ttgtaggcc	1020
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cacaattgtg	gagtgtggcc	cagttcttct	tggccctcct	cttgcaggta	aattggtgga	1320
tttaactgga	gaatataaat	acatgtacat	gtcctgtggg	gctattgtgg	tagcagcaag	1380
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ttaacaagaa	tcacatctct	gatttcagtg	tttatgactt	tatctaggag	tttggttttc	1620
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tacctgactc	tgggtgtggt	gggttaaaata	ctaattttta	agtcttccag	tgactttcgg	1860
tcttggttat	atggagaatt	ctgaatccca	aacctctggt	ttaagtaggt	agaaggagga	1920
tgctaatacc	tacaaagtga	ccctttatac	atttcatttt	ttatttgata	ttaaagtatg	1980
agatagagtt	gagagacaat	taattatccc	ctcttacaca	caaacacaca	tactcccaca	2040
tacttaccca	catgtacaca	gagtatctgg	agaataaaac	ccaaattcaa	aaaaaaaaaa	2100
aaaa						2104

Homo sapiens interferon-induced protein 44, mRNA (cDNA clone MGC:24007

ggggcatttt	gtgcctgcct	agctatccag	acagagcagc	taccctcagc	tctagctgat	60
actacagaca	gtacaacaga	tcaagaagta	tggcagtgac	aactcgtttg	acacggttgc	120
acgāaaagat	cctgcaaaat	cattttggag	ggaagcggct	tagccttctc	tataagggtta	180
gtgtccatgg	attccgtaat	ggagttttgc	ttgacagatg	ttgtaatcaa	gggcctactc	240
taacagtgat	ttatagtga	gatcatatta	ttggagcata	tcggaagag	agttaccagg	300
aaggaaagta	tgcttccatc	atcctttttg	cacttcaaga	tactaaaatt	tcagaatgga	360
aactaggact	atgtacacca	gaaacactgt	tttgttgtga	tgttacaaaa	tataactccc	420
caactaattt	ccagatagat	ggaagaaata	gaaaagtgat	tatggactta	aagacaatgg	480
aaaatcttgg	acttgctcaa	aattgtacta	tctctattca	ggattatgaa	gtttttcgat	540
gcgaagattc	actggatgaa	agaaagataa	aaggggtcat	tgagctcagg	aagagcttac	600
tgtctgcctt	gagaacttat	gaaccatatg	gatccctggg	tcaacaaata	cgaattctgc	660
tgctgggtcc	aattggagct	gggaagtcca	gctttttcaa	ctcagtgagg	tctgttttcc	720
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ataggacata	ctctattaga	gacgggaaag	atggcaaata	cctgccgttt	attctgtgtg	840
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tgaacggtaa	cattcgtgat	agataccagt	ttaatcccat	ggaatcaatc	aaattaaatc	960
atcatgacta	cattgattcc	ccatcgctga	aggacagaat	tcatgtgtgtg	gcatgtgtat	1020
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attattcctc	tgagtgggag	ctggaccctg	taaaggatgt	tctaattctt	tctgctctga	1320
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cgtaaatttc	ctcacatcac	agaagattaa	aattcagaaa	ggagaaaaca	cagaccaaag	1500
agaagtatct	aagaccaaag	ggatgtgttt	tattaatgtc	taggatgaag	aaatgcatag	1560
aacattgtag	tacttgtaaa	taactagaaa	taacatgatt	tagtcataat	tgtgaaaaat	1620
agtaataatt	tttcttggat	ttatgttctg	tatctgtgaa	aaaataaatt	tcttataaaa	1680
ctcggaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			1714

601067066F1 NIH\_MGC\_10 Homo sapiens cDNA clone IMAGE:3453257 5', mRNA sequence.

aaatctcaag	acacattcac	aaacaaatgg	ttatcaccaa	ggctcttcatg	ctctactcat	60
gttgacatga	gttgatttaa	ttggtgactg	gaagtcagg	atctgttgag	gaagtcagt	120
acccttaaat	tcaggaacac	tgccttggaa	gggtggtggac	ctttaaaca	gaagcttctc	180
agttttgtag	catctgatat	gagagaatat	gctagatatt	cataaactta	gggccaggca	240
atgtggggcc	cctggaatgc	tactgggcac	tctctaacct	agtcctagaa	atttcagttc	300
caataatgtt	ttcttcttct	tttctagata	gaaactatat	gtatctcgtg	gatctgccag	360
taccagcctt	ccaaatgaaa	ctctttcaga	gttagagaca	cctggaaata	ctcacttaca	420
ccaccaaaaca	ctggggccac	cacatcgata	cctgcagcat	ctttagtcaa	gttggaggag	480
aaagacaaca	cttgggtctaa	gacacggcag	caagacatcc	ctgcatatgt	tccagataaa	540
aatgaaagct	gtcacacca	cttgccctccc	caatctgtta	aacagcttcg	tgtctagtat	600
gagctcagta	ctttgcctgt	gaaaatccca	gaagcccccg	ctgtcaatgg	ttccccatcc	660
aaccctgttt	gctcctgtgt	aacagtcaga	tgatgactaa	taataaaaact	gtactttttg	720
gaaaaaaaca	aaaggggggc	ggcāaaāgac	cācgāg			756

Human glutamate receptor subunit (GluH1) mRNA, complete cds.

ggtaaaggga	aaggggggga	aacaccaa	atatgattgg	acctgggctt	ctttttcgcc	60
aatgcaaaaa	ggaatatgca	gcacattttt	gccttcttct	gcaccgggtt	cctaggcgcg	120
gtagtaggtg	ccaatttccc	caacaatatc	cagatcgggg	gattatttcc	aaaccagcag	180
tcacaggaac	atgctgcttt	tagattttgt	ttgtcgcaac	tcacagagcc	cccgaagctg	240
ctccccaga	ttgatattgt	gaacatcagc	gacagctttg	agatgacct	tagattctgt	300
tcccagttct	ccaaaggagt	ctatgccatc	tttgggtttt	atgaacgtag	gactgtcaac	360
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caagctgggg	gcgataatc	aagtgttcag	aacagaacat	acatcgtcac	aacaatccta	1320
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cagacaacca	gtgaccagtc	caatgagttt	gggatattca	acagtttggt	gttctccctg	1860
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ttcctgaaga	cgcaaccacc	accaaccact	gcgaccacaa	gaaggatgat	tcaacaggtt	2940
cttttctgtt	tgctaagtga	ggatgaaaaa	ataacactgt	actgcaataa	ggggagagta	3000
accctgtcta	atgaaacctg	tgtctctgag	agtagagtca	ctggaacact	aatgaggaaa	3120
ctgcactgtt	ttattttta	tcagttgtta	gtgtgtctta	gtgtgtgcaa	tttttccc	3178

zn32e02.s1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone  
IMAGE:549146 3', mRNA sequence.

cagtaataat	cagaacaata	tttattttta	tattttaanat	tcatagaaaa	gtgccttaca	60
tttaataaaa	gtttgtttct	caaagtgatc	agaggaatta	gatatagtct	tgaacaccaa	120
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tgtaagtga	aagataaaat	ttgacctcag	aaactctgag	cattaaaaat	ccactattag	240
caaataaatt	actatggact	tcttgcttta	atthttgtgat	gaatatgggg	tgctactggg	300
aaaccaacac	attctgaagg	atacattact	tagtgataga	ttcttatgta	ctttgctaga	360
taacatggat	atgagttgac	aagtttctct	ttcttcaatc	ttttaagggg	cagaggaaat	420
gaggaagaaa	agaaaaggaa	ttacagcaat	actggttcct	tcctatagga	aggattagat	480
atgtttcctt	tgccaaatat	aaaaanaatt	aataatgggt	accaccagtg	aaccnaggt	540
attaggga	taatgggtcca	gcacncttg	ccagaaaggg	gtaagatggg	tatgggtgaa	600
c						601

Homo sapiens mRNA expressed in osteoblast, complete cds.

gcacgaggaa	gccacagatc	tcttaagaac	tttctgtctc	caaaccgtgg	ctgctcgata	60
aatcagacag	aacagttaat	cctcaattta	agcctgatct	aacccctaga	aacagatata	120
gaacaatgga	agtgacaaca	agattgacat	ggaatgatga	aaatcatctg	cgcaactgct	180
tggaaatggt	tctttgagtc	ttctctataa	gtctagtgtt	catggaggta	gcattgaaga	240
tatggttgaa	agatgcagcc	gtcagggatg	tactataaca	atggcttaca	ttgattacaa	300
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actcttaa	acagcaccaa	aaattattga	tgagcaactg	gtgtgtcggt	tatcgaaaac	480
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aaaccccatc	tccactgc					2058



DE wy59c01.x1 Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1 Homo sapiens cDNA clone  
DE IMAGE:2552832 3', mRNA sequence.

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Homo sapiens mRNA for C11ORF25 gene

ctttcaaata	aggtgttgat	ttatgtggtc	ttgagaaatc	tttgttgctc	tgatcttaag	60
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## Homo sapiens isopentenyl-diphosphate delta isomerase, mRNA (cDNA clone

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## Human prostaglandin endoperoxide synthase mRNA, complete cds.

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602381868F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4499393 5', mRNA  
sequence.

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aacaactgaa	gtcttattgt	tgaaacttat	tttcaacaaa	actgtgcagt	taaatttgta	240
tacgtattca	catactgaaa	gatgaaccgt	taaaatagca	cttaatttgt	gtttcttcaa	300
tatgtcttga	tatactttgt	gcaattaata	ttacacatgt	aagttgtatg	gcagtttaca	360
gaactcaatg	acttgtcatg	aggttttcat	atgagctaca	cattgtgtac	attgatgggt	420
ttttattttt	acataaatcc	attctgtcat	tttcaacttt	atatataaat	ctccaatgtt	480
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tgaataaagt	cttttaatat	aaaaaaaaaa	aaaaaaaaaa	gaaacaaaaa	aagaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa	aggggggggg	ggaaaaaaaa	accacggggg	gcacaaatct	660
atccgccacc	cacgtttaga	tcaaaggggc	ccaagagag	agacaaaaga	aagcgacggc	720
gacacaacaa	ccgggggcac	acgcgtacga	ctaggagag	cacaatcgcg	gtagtaggac	780
acacacaaaa	aacgagaaca	aacaggaccg	tgacaccacc	tgcgattgcc	taataaaaag	840
gcagaaacgg	cacgcacagc	gacgagcacg	cagcagaaac	accacacgca	gcaccatgta	900
c						901

Homo sapiens mRNA for quinolinate phosphoribosyl transferase, complete cds.

atggacgctg	aaggcctggc	gctgctgctg	ccgcccgtca	ccctggcagc	cctggtggac	60
agctggctcc	gagaggactg	cccagggctc	aactacgcag	ccttggtcag	cggggcaggc	120
ccctcgcaag	cggcgctgtg	ggccaaatcc	cctgggggtac	tggcagggca	gcctttcttc	180
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gcagtggagg	ccgccagggg	ggccggctgg	actgggcacg	tggcaggcac	gaggaagacc	420
acgccaggct	tccggctggt	ggagaagtat	gggctcctgg	tgggcggggc	cgcctcgcac	480
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gaatgcagca	gcctgcagga	ggtcgtccag	gcagctgagg	ctggcgccga	ccttgtcctg	660
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ttctccctca	agctgtttgc	caaagaggtg	gctccagtgc	ccaaaatcca	ctag	894

Homo sapiens mRNA for cytochrome P-450 HFLa, complete cds.

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atactcctct	atctatatgg	aacctgtaca	catggacttt	ttaagaagct	tggaattcca	120
gggcccacac	ctctgccttt	tttgggaaat	gctttgtcct	tccgtaaggg	ctattggacg	180
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cctatgctgg	ctatcacaga	tcccgcacatg	atcaaaacag	tgctagtga	agaatgttat	300
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ggaaaactca	aggagatggt	ccctatcatt	gcccgatg	gagatgtgtt	ggtgagaaat	480
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caagaccctt	ttgtggaaaa	caccaagaag	cttttaagat	ttaatccatt	agatccattc	660
gttctctcaa	taaaagtctt	tccattccct	accccaattc	ttgaagcatt	aaatatcact	720
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gttcttcatc	atgaccctaa	gtactggaca	gagcctgaga	agttcctccc	tgaaagggtc	1260
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aaaaatagga	attattttga	tggctctaac	agtgcattt	atatcatgtg	ttatatctgt	1920
agtattctat	agtaagcttt	atattaagca	aatcaataaa	aacctcttta	c	1971



Human mRNA for endothelin converting enzyme, complete cds.

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atgcgggggcg tgtggccgcc cccgggtgtcc gccctgctgt cggcgctggg gatgtcgcgcg      60
tacaagcggg ccacgctgga cgaggaggac ctggtggact cgctctccga gggcgacgca      120
taccccaacg gcctgcaggt gaacttccac agcccccgga gtggccagag gtgctgggct      180
gcacggaccc aggtggagaa gcggctggtg gtgttgggtg tacttctggc ggcaggactg      240
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ttggccacc                                     2409

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602386668F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4515521 5', mRNA

gcagaatgga	agcttagagg	aacttgctg	tgagcgctgg	tcttgtgttg	gtttgtgatg	60
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aaaaaagaaa	aaaag					615

## Homo sapiens mRNA for Rev-ErbAalpha protein (hRev gene)

ccgttgccctc	aacgtccaac	ccttctgcag	ggctgcagtc	cggccacccc	aagaccttgc	60
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gcccaggggg	caacagcggc	gatcgcaacc	tctagtttga	gtcaagggtcc	agtttgaatg	180
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aaaaaaaaaa	aaaag					2355

Homo sapiens insulin induced protein 1 (INSIG1) gene, complete cds.

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## Homo sapiens tumor rejection antigen (gp96) 1, mRNA (cDNA clone

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Homo sapiens tumor suppressor deleted in oral cancer-related 1, mRNA (cDNA clone MGC:3779 IMAGE:3659410), complete cds.

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tcagcccttc ccagcacttc tccactttg tcccagacct ccttctcccc cagcaggggc      1260
acaggcctgg cacctccctg ccttgtgtcc tgagccatag tgactctttt atctgtgtgt      1320
cttttgctaa atatgccctt tttatattaa taaaagatga tttggagttg tgctctcaaa      1380
aaaaaaaaaa aaaaaaa                                1397

```

Homo sapiens TNFR-related death receptor-6 (DR6) mRNA, complete cds.

atggggacct	ctccgagcag	cagcacccgc	ctcgccctct	gcagccgcat	cgcccgcgga	60
gccacagcca	cgatgatcgc	gggctccctt	ctcctgcttg	gattcccttag	caccaccaca	120
gctcagccag	aacagaaggc	ctcgaatctc	attggcacat	accgccatgt	tgaccgtgcc	180
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ttaccttggt	ctgccttgac	tgaccgagaa	tgcacttgcc	cacctggcat	gttccagtct	420
aacgctacct	gtgcccccca	tacgggtgtg	cctgtgggtt	gggggtgtgcg	gaagaaaggg	480
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acctcacctt	cccctggcac	agccatcttt	ccacgccctg	agcacatgga	aacctcatgaa	720
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gtgcttgtgg	tgattgtggt	gtgcagtatc	cggaaaagct	cgaggactct	gaaaaagggg	1140
ccccggcagg	atcccagtg	cattgtggaa	aaggcagggc	tgaagaaatc	catgactcca	1200
accagaacc	gggagaaatg	gatctactac	tgcaatggcc	atggtatcga	tatcctgaag	1260
cttgtagcag	cccaagtggg	aagccagtgg	aaagatatct	atcagtttct	ttgcaatgcc	1320
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gatgacatgc	tccactttct	aaatcctgag	gagctgcggg	tgattgaaga	gattccccag	1860
gctgaggaca	aactagaccg	gctattcgaa	attattggag	tcaagagcca	ggaagccagc	1920
cagaccctcc	tggactctgt	ttatagccat	cttctcgacc	tgctgtag		1968

601848574F1. NIH\_MGC\_55 Homo sapiens cDNA clone IMAGE:4079202 5', mRNA sequence.

acaatggtat	agatttcaca	acacaaaaag	gacattggtg	gatgttactg	cacattttta	60
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ttatgtaaaa	ttagtaatga	atgatggcaa	cgagggcact	gttatcttcg	ttgttttcaa	180
tgatcattta	gcattcaatg	atggaacagc	tggtataaca	taagtgggtcg	gcatgaaata	240
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ggcatcataa	cagatgactt	gtgctaagtt	caatagagtt	accacatctt	ttactattat	600
gcaaaaatat	taactttaat	gaaccattgc	ttggacatga	tttcctatac	attaccattg	660
ggccgaatgt	gttggtcata	ctatcacgca	ctaaacctgg	gtgtttacac	tgggcaccgc	720
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Homo sapiens clone. PP1722 unknown mRNA.

gctgtgtggc	ccaggctttt	ctcaaaactcc	tgaggggcaag	cgatccctccc	acctcagcct	60
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acacgaaacc	atattatttt	catttcacaa	tgttttattca	catatatggg	attagttattc	180
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ggaaattccc	tatttttgcca	ttatcagttc	taacaaaaat	cttaaaagca	ctttatcatt	300
tcatttccct	gcactgtaat	ttttttaaat	gatcaaaaac	agtatcatac	caaggcttac	360
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tcagatgtct	gcaatgagta	aatttagcac	cattatcagg	aagctttctc	accaatgaca	480
acttcattgg	aagatttttaa	tgaaagtgtg	gcatactcta	gggaaaaaat	atgaatatatt	540
tagcatctat	gtattgaaaa	ttatgttgaa	taaatgtcag	actatttttt	acataacggt	600
gcttctgttt	aattttgtca	cgttcagagg	tggggggtag	gagatgtaag	cccttgacag	660
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Homo sapiens hypothetical protein FLJ11259, mRNA (cDNA clone MGC:8787.  
IMAGE:3925141), complete cds.

gcaaaatcaa	acctgctatt	tcagcactcc	tggttttaac	ttggtgtctt	tagtgcttgg	60
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gatggtcac	tctgccgttt	cttgccgcagc	tgtcatcccc	atgattgtct	gtgcttcact	300
aatttccata	accaagctgg	agtgggaatcc	aagagaaaag	gattatgtat	atcacgtagt	360
gagtgcgac	tgtgaatgga	cagtggcctt	tggttttatt	ttctacttcc	taactttcat	420
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tggaagagtt	tgacagagat	acacctttgt	aagaaaacat	taagaatgct	ggctggctgt	2040
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ctggggacttc	gagaccagac	tgggaaacat	ggcaaaatcc	catctctaca	acaaaaatac	2160
aaaaattagc	caagtgcggt	ggtgtgcctg	tagtcctagt	tacttgggag	gctgaggtgg	2220
gagaatcacc	tgagcccagg	aggtggaggc	tgcagtgagc	catgccaatg	cactccagtc	2280
tgggcaacag	agtgagaccc	tgtctcaaaa	ataaataaat	aaataaatga	ataaagagaa	2340
tgctaatacca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2388

tq65c10.x1 NCI\_CGAP\_Lu19 Homo sapiens cDNA clone IMAGE:2213682 3' similar  
to SW:ENPL\_HUMAN P14625 ENDOPLASMIN PRECURSOR ;, mRNA sequence.

```

ttttttttcc tctactgcag cttcatcatc agattcttct ttctcttctt tggctgcttc      60
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gtttatgaac tgtgaatatt tttttgacga gatttttaat tgtatccaat tcaaggtaat      180
cagatgcttc ttcttttaag acaagggtaa ttgtcgttcc ccgtccataga gtgtttcctc      240
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tcctccctcn cccaaaancc ccgcctatta aaacccggga gggaaangtn ttccctctcc      1140
tctcaccn c                                     1151

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Homo sapiens phosphoserine aminotransferase (PSA) mRNA, complete cds.

```

ccttggctga ctcaccgccc tcgcccgcgc accatggacg cccccaggca ggtgggtcaac      60
tttgggcctg gtcccgccaa gctgccgcac tcagtgttgt tagagataca aaaggaatta      120
ttagactaca aaggagttgg cattagtgtt cttgaaatga gtcacaggtc atcagatttt      180
gccaaagatta ttaacaatac agagaatctt gtgcgggaat tgctagctgt tccagacaac      240
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caggatatac tctgttcttg aacaacatac aaagtttaaa gtaac                                     1065

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Homo sapiens cDNA clone:ADBAPE04, 5'end, expressed in human adrenal gland..

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ataccactgt	cattaatata	ttaaaaagat	gtatgtgtta	gactatcgaa	agggccttat	180
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gaaagattta	ttttggtaaa	agattttgct	ttacttttcg	aagcattatt	cttttaaaga	420
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wd68f02.x1 NCI\_CGAP\_Lu24 Homo sapiens cDNA clone IMAGE:2336763 3', mRNA  
sequence.

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H.sapiens LU gene for Lutheran blood group glycoprotein.

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tc						2402

Homo sapiens mRNA for calmegin, complete cds.

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aaatttcaat	atacgatgga	agatgggaaa	ttgaagagtt	gaaagaaaac	caggtaacctg	420
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gatgtacaga	ttttttttca	agttttttata	gttgcttttat	gccagagtgg	tttaccocat	2640
tcacaaaatt	tcttatgcat	acattgctat	tgaaaataaa	atttaaatat	tttttcatcc	2700
tgaaaaaaa						2710

wx78h04.x1 NCI\_CGAP\_Ov38 Homo sapiens cDNA clone IMAGE:2549815 3', mRNA sequence.

agcaatttga	atcattttctt	gaaaaacaaa	cacagacaaa	caccaaacat	ggagttggtg	60
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atgcaaatcc	aagcacagaa	agaccaagcg	cagaccccac	gggcgcacga	ggcccagccc	420
agttcctgcg	ggcacgggca	ccaccggctc	ttcacagacc	aggagt		466

## Human CD9 antigen mRNA, complete cds.

cgcgcccccc	agtcgccgcac	ccgttcggcc	caggctaagt	tagccctcac	catgccggtc	60
aaaggaggca	ccaagtgcac	caaataacctg	ctgttcggat	ttaacttcat	cttctggctt	120
gccgggattg	ctgtccttgc	cattggacta	tggctccgat	tcgactctca	gaccaagagc	180
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ttttacaagg	acacctacaa	caagctgaaa	accaaggatg	agccccagcg	ggaaacgctg	480
aaagccatcc	actatgcgtt	gaactgctgt	ggtttggctg	ggggcggtga	acagtttatc	540
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gccatcaaag	aggtcttcga	caataaattc	cacatcatcg	gcgcagtggg	catcggcatt	660
gccgtgggtca	tgatatttgg	catgatcttc	agtatgatct	tgtgctgtgc	tatccgcagg	720
aaccgcgaga	tggcttagag	tcagcttaca	tccctgagca	ggaaagttaa	cccatgaaga	780
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ccactaattt	tagtattcat	tctgcattgc	tagataaaaag	ctgaagttac	tttatgtttg	900
tcttttaattg	cttcattcaa	tattgacatt	tgtagttgag	cgggggggtt	ggtttgcttg	960
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taaatagata	caaatgtcta	tcaacttta	tcaagttgta	acttatattg	aagacaattt	1140
gatacataat	aaaaaattat	gacaatgaaa	aaaaaaaaaa	aaaaaaaaaa	gg	1192

Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,

gtagccttta	tttacttaaa	catttatttg	cttctaggaa	ataagcgctt	tcctaatttc	60
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aagtcacata	tatgtctatg	aacggaagtt	aaaagggaaa	ttcaacatga	agatgaaatt	180
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ccaaatatca	ctactgagga	aatgtataaa	ataccacata	gtataaaatt	acatgttaat	360
ccaatgccag	attttaaata	aaggacctta	agttttcctc	aagggggaag	tttaatgggt	420
cnttcccgnt	ntcanagggc	caaaaanttc	ccaaggaaac	caggtagnaa	gctcttnaaa	480
ggccgcaaaa	t					491

Homo sapiens 7-dehydrocholesterol reductase, mRNA (cDNA clone MGC:1760 IMAGE:3507516), complete cds.

gtggagcagc	gcgcgcaagc	gaggccaggg	gaagggtgggc	gcaggacttt	agccgggttga	60
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cgatcatctc	ctactgctgt	tgcggccctt	catcgtctac	tacttcatca	tggttcttga	360
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			2614

Homo sapiens squalene epoxidase (ERG1) mRNA, complete cds.

ctggtctgat	cggacttctc	gtcctgggac	acagtttact	ggagtctggc	cggctctccg	60
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ttttgaattt	agtatttgag	atgagttggt	gggacatgc			2199

Homo sapiens keratin 23 (histone deacetylase inducible), transcript variant 1, mRNA (cDNA clone MGC:26158 IMAGE:4838347), complete cds.

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cttgggggtt tggagaagc agccccctac taggcggaaa tgggaaggcc accatgcaga      660
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agactcagaa acttttattt tttttttctg taactgtctc accagacttc tcataatgct      1860
cttaatatat tgcacttttc taatcaaagt gcgagtttat gagggtaaag ctctactttc      1920
ctactgcagc cttcagattc tcatcatttt gcatctattt tgtagccaat aaaactccgc      1980
actagcaaaa aaaaaaaaaa aa                                2002

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Homo sapiens translocon-associated protein gamma subunit mRNA, complete cds.

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cctttgcccg cttggcggcc ggctctacgt tcctgtttct cgctgcagc tccgccatgg      60
ctcctaaagg cagctccaaa cagcagtcgt aggaggacct gctcctgcag gatttcagcc      120
gcaatctctc ggccaagtcc tccgcgctct tcttcggaaa cgcgttcac gtgtctgcca      180
tccccatctg gttatactgg cgaatatggc atatggatct tattcagctc gctgttttgt      240
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gaaaactttc tgaagctgat aatagaaaga tgtctcggaa ggagaaagat gaaagaatct      420
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ctggctccaa atagaccatg tcagcttcac cccctggctt tgtgtctatg ggtggcctgt      660
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gagcctttaa aaacccagc agaatgtaat tcagtatttg tttattggct gttttttgac      780
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tgatttttagt gcttgtcagc atttttccat gaggaacttc atacatttga ctcttttagt      1560
cacaggttcc cattgattgt gagcaagata tttatctctt tagcccttgg gatccagctg      1620
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cctaactctt actatccact tctaaattta atgtgaattt catacatgtt attagtgtgt      1860
ttctttataa ttttataaaa attatctatc gggagtttaa cttccacttc catgctatcg      1920
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gctgaagcag gagaactgcc tgaaccagg aggcagaggt tgcagtgagt cgagatcgtg      2340
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tgttaccaga gttgggccac tatcttttaa aattgctggg gaaaacttgc cactagatgg      2580
agtgtgttat agatggggaa aaaattgcca ccattcttgg tataatacag tgtagcttag      2640
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taaactgaag atttgtagga aaatgagtga gcaaaatttg tttactgttg tgaatttttc      2760
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gtgagtactt tactgtgagg aattgcagaa ctttttcccc tctactcttg tctaaaagtt      2940
ctgtgtggca cacagagatg cgacctactt aactgactt agtaaaacca tgctgtagaa      3000
tttttgtctt aaaaagacca cataccagc acccatgaaa taaaagattc atctgtaaaa      3060
a

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Homo sapiens malic enzyme 1, NADP(+)-dependent, cytosolic, mRNA (cDNA clone MGC:39115 IMAGE:4870714), complete cds.

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gtcaccacag cagcatccgc cgctgcacc ggcggtgcgg cccgccccgg cctgaccccg      60
ccgcogaacc cggcgccagc catggagccc gaagcccccc gtccgcgcca caccatcag      120
cgcggtacc tgctgacacg gaaccctcac ctcaacaagg acttggcctt tacctggaa      180
gagagacagc aattgaacat tcatggattg ttgccacctt ccttcaacag tcaggagatc      240
caggttctta gagtagtaaa aaatttcgag catctgaact ctgactttga caggatctt      300
ctcttaattg atctccaaga tagaaatgaa aaactctttt atagagtgtt gacatctgac      360
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agtttgggtg ttcggaagcc aagaggtctc tttattacta tccacgatcg agggcatatt      480
gcttcagttc tcaatgcatt gccagaagat gtcattcaagg ccatttgtgt gactgatgga      540
gagcgtatcc ttggcttggg agaccttggc tgtaatggaa tgggcatccc tgtgggtaaa      600
ttggctctat atacagcttg cggaggggat aatcctcaag aatgtctgcc tgtcattctg      660
gatgtgggaa ccgaaaatga ggagttactt aaagatccac tctacattgg actacggcag      720
agaagagtaa gaggttctga atatgatgat tttttggacg aattcatgga ggcagttct      780
tccaagtatg gcattgaatt ccttattcag tttgaagatt ttgccaatgt gaatgcattt      840
cgtctcctga acaagtatcg aaaccagtat tgcacattca atgatgatat tcaaggaaaca      900
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gatcaaaaca tactattcca aggagcttga gaggttgccc tagggattgc acacctgatt      1020
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gttgattcaa aaggattaat agttaaggga cgtgcttctt taacacaaga gaaagagaag      1140
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acagataata ttttctctac tactgctgag gttatagctc agcaagtgtc agataaacac      1560
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gcagaaaaga ttgtgaaaga tgcataccaa gaaaagacag ccacagttta tctgaaccg      1680
caaaacaaag aagcatttgt ccgctcccag atgtatagta ctgattatga ccagattcta      1740
cctgattgtt attcttggcc tgaagaggtg cagaaaatac agaccaaagt tgaccagtag      1800
gataatagca aacatttcta actctattaa tgaggtcttt aaacctttca taatttttaa      1860
agggttgaat cttttataat gattcataag acacttagat taagatttta ctttaacagt      1920
ctaaaaattg atagaagaat atcgatataa attgggataa acatcacatg agacaaaaaa      1980
aaaaaaaaaa aa

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Homo sapiens livin inhibitor-of-apoptosis (LIVIN) mRNA, complete cds.

ccctgggata	ctccccctccc	aggggtgtctg	gtggcaggcc	tgtgcctatc	cctgctgtcc	60
ccagggtggg	ccccgggggt	caggagctcc	agaagggcc	gctgggcata	ttctgagatt	120
ggccatcagc	ccccatttct	gctgcaaacc	tggtcagagc	cagtgttccc	tccatgggac	180
ctaaagacag	tgccaagtgc	ctgcaccgtg	gaccacagcc	gagccactgg	gcagccggtg	240
atgggtccac	gcaggagcgc	tgtggacccc	gctctctggg	cagccctgtc	ctaggcctgg	300
acacctgcag	agcctgggac	cacgtggatg	ggcagatcct	gggccagctg	cggcccctga	360
cagaggagga	agaggaggag	ggcgccgggg	ccaccttgtc	cagggggcct	gccttccccg	420
gcatgggctc	tgaggagtgt	cgtctggcct	ccttctatga	ctggccgctg	actgctgagg	480
tgccacccga	gctgctggct	gctgccggct	tcttccacac	aggccatcag	gacaagggtga	540
ggtgcttctt	ctgctatggg	ggcctgcaga	gctggaagcg	cggggacgac	ccctggacgg	600
agcatgccaa	gtggttcccc	agctgtcagt	tctgtctccg	gtcaaaagga	agagactttg	660
tccacagtgt	gcaggagact	cactcccagc	tgttgggctc	ctgggaacctg	tgggaagaac	720
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caccagggag	agagggtccag	tctgaaagtg	cccaggagcc	aggagccagg	gatgtggagg	840
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ccatcgtctt	tgtgccgtgc	ggccacctgg	tctgtgctga	gtgtgcccc	ggcctgcagc	960
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cctgattccc	cgaccaccgc	ccagggtgga	gaaggaggcc	cttgcttggc	gtgggggatg	1200
gcttaactgt	acctgtttgg	atgcttctga	atagaaataa	agtgggtttt	ccctggaggt	1260

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517  
IMAGE:3356428), complete cds.

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ccgagggcggc ggcggcgact ccctctttcc ctccctcctc ctccgtccgc ccgtccgtcc      60
gcgcgtctgt ccgttcggcc cgggtccggcc cgaagcatgg cggcgctcag cttcagcggc      120
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caataaatgg ctctgtggct ctggcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      2580
aaaaaaaaaa aaa                                     2593

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Homo sapiens MDS019 (MDS019) mRNA, complete cds.

ctgccagggg	gagggcccca	gagaaaacca	gaaagagggt	gagagactga	ggaagataaa	60
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ggccctggga	ggtcacttta	gggagggctg	tcctaaaacc	agaagcttgg	agcagaaagt	180
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agacccatcc	tttctcgtcg	gaataaccgtc	tggctgtgct	acgaagtgaa	aacaaagggg	360
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ttcaacttta	acaatgaacc	ttgggtcaga	ggacggcatg	agacttacct	gtgttatgag	900
gtggagcgca	tgcacaatga	cacctgggtc	ctgctgaacc	agcgcagggg	ctttctatgc	960
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tcctggagcc	cctgcttcag	ctgtgcccag	gaaatggcta	aattcatttc	aaaaaacaaa	1140
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ctttgaatca	aaaatttatt	tatatattcaa	gaataaagta	ctaagattgt	gctcaatata	1620
cagaaaagtt	tcaaacctac	taatccagcg	acaatttgaa	tcggttttgt	aggtagagga	1680
ataaaatgaa	atactaaatc	tttctgtaaa	aaaaaaa			1717

Human carnitine palmitoyltransferase I mRNA, nuclear gene encoding mitochondrial protein, complete cds.

ccgcgcaccc	atctgcccc	gtcctaggtg	ccgaccaacc	cccaggatgg	cggaagctca	60
ccaggccgtg	gccttccagt	tcacggtgac	cccagacggg	gtcgacttcc	ggctcagtcg	120
ggaggccctg	aaacacgtct	acctgtcttg	gatcaactcc	tggaagaaac	gcctgatccg	180
catcaagaat	ggcatcctca	ggggcggtga	ccctggcagc	cccaccagct	ggctggtcgt	240
catcatggca	acagtgggtt	cctccttctg	caacgtggac	atctccttgg	ggctggtcag	300
ttgcatccag	agatgcctcc	ctcaggggtg	tggcccctac	cagaccccgc	agaccgggc	360
acttctcagc	atggccatct	tctccacggg	cgtctgggtg	acgggcatct	tcttcttccg	420
ccaaaccctg	aagctgcttc	tctgctacca	tgggtggatg	tttgagatgc	atggcaagac	480
cagcaacttg	accaggatct	gggctatgtg	tatccgcctt	ctatccagcc	ggcaccctat	540
gctctacagc	ttccagacat	ctctgcccaa	gcttcctgtg	cccaggggtg	cagccacaat	600
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Homo sapiens prostate differentiation factor mRNA, complete cds.

```

agcgtttaaa cttaagcttg gagttatttc caccatgccc gggcaagaac tcaggacgct      60
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aactagtact aagccgaatt ctgcagatat cc      992

```

Homo sapiens amphiphysin II mRNA, complete cds.

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gggaaggcag	atgagaccaa	ggatgagcag	tttgagcagt	gcgtccagaa	tttcaacaag	180
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gtcccgcaaa	gtccggcg					1998



602149641F1 NIH\_MGC\_81 Homo sapiens cDNA clone IMAGE:4290707 5', mRNA sequence.

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Human global transcription activator homologous sequence mRNA, complete cds.

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tb60a01.x1 NCI\_CGAP\_Br15 Homo sapiens cDNA clone IMAGE:2058696 3' similar  
to gb:M84739 CALRETICULIN PRECURSOR (HUMAN);, mRNA sequence.

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aaaaaaaaa aaaaaaaagt cgtatcga                                     148
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tu04d02:x1 NCI\_CGAP\_Pr28 Homo sapiens cDNA clone IMAGE:2250051 3', mRNA sequence.

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acttaaaaca						550

Homo sapiens mRNA for KIAA0895 protein, partial cds.

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tggagactgg	ctgaattcca	ttgctgttca	gactccaaag	ttatatttta	tttgataaat	2040
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gctgaaacat	attgtaccct	tttaaatttt	ttacagagtt	ttaacgtctt	ttccactgca	2340
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taaaagttag	cagtgaacca	aaagtagttt	cagattagca	gaaataaaga	gctttaagtt	3720
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gtttgcaaac	ataaatccat	agtcttcatt	tcttttatatt	gtcacctttg	taaaagtgtt	4080
taaaatttgt	attgttttgt	ttgtatatct	ttgggcatct	tgtgtctagc	tataataaaa	4140
agaaacggtg	ccaag					4155

Homo sapiens NUCB2 protein (NUCB2) mRNA, complete cds.

caggtttgtg	cgctggacgc	aagcaccagg	cgcagcctcg	ctcgccgaga	cccgccaga	60
acgtgttacg	agtcagtttt	tagtgaaaaa	acattgagct	aggagccaag	acccatctct	120
tcactatttt	ggtattgtgc	aagtcacctt	acctctctgg	atctcagttg	tctcatctgt	180
aaaaaggaga	taaaaattat	ttacctgcct	gaacatgagg	tggaggacca	tcctgctaca	240
gtattgcttt	ctcttgatta	catgtttact	tactgctctt	gaagctgtgc	ctattgacat	300
agacaagaca	aaagtacaaa	atattcacc	tgtggaaagt	gcgaagatag	aaccaccaga	360
tactggactt	tattatgatg	aatatctcaa	gcaagtgatt	gatgtgctgg	aaacagataa	420
acacttcaga	gaaaagctcc	agaaagcaga	catagaggaa	ataaagagtg	ggaggctaag	480
caaagaactg	gatttagtaa	gtcaccatgt	gaggacaaaa	cttgatgaac	tgaaaaggca	540
agaagtagga	aggtaagaa	tgtaatttaa	agctaagttg	gattcccttc	aagatatagg	600
catggaccac	caagctcttc	taaaacaatt	tgatcaccta	aaccacctga	atcctgacaa	660
gtttgaatcc	acagatttag	atatgcta	caaagcggca	acaagtgatc	tggaaacta	720
tgacaagact	cgtcatgaag	aatttaaaaa	atatgaaatg	atgaaggac	atgaaaggag	780
agaatattta	aaaacattga	atgaagaaaa	gagaaaaaga	gaagagtcta	aatttgaaga	840
aatgaagaaa	aagcatgaaa	atcaccctaa	agttaatcac	ccagggaagca	aagatcaact	900
aaaagaggta	tgggaagaga	ctgatggatt	ggatccta	gactttgacc	ccaagacatt	960
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atttactaaa	gagttggaga	aagtatatga	ccctaaaaat	gaagaggatg	atagtgtaga	1080
aatggaagaa	gaaaggctta	gaatgaggga	acatgtaatg	aatgagggtg	atactaacia	1140
agacagattg	gtgactctgg	aggagttttt	gaaagccaca	gaaaaaaaaag	aattcttgga	1200
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gaaacaaaaa	gaagagctac	aacgtcagca	tgatcaactg	gaggctcaga	agctggaata	1380
tcacaggtc	atacagcaga	tggaacaaaa	aaaattacaa	ggaattcctc	catcagggcc	1440
agctggagaa	ttgaagtttg	agccacacat	ttaaagtctg	aagtccacca	gaacttgga	1500
gaaa						

Homo sapiens glucose-6-phosphate dehydrogenase, mRNA (cDNA clone MGC:8534 IMAGE:2822640), complete cds.

cacttcgggg	ctgcgagcgc	ggagggcgac	gacgacgaag	cgcagacagc	gtcatggcag	60
agcaggtggc	cctgagccgg	acccaggtgt	gcgggatcct	gcgggaagag	cttttccagg	120
gcgatgcctt	ccatcagtcg	gatacacaca	tattcatcat	catgggtgca	tcggtgacc	180
tggccaagaa	gaagatctac	cccaccatct	ggtggctgtt	ccgggatggc	cttctgccc	240
aaaacacctt	catcgtgggc	tatgcccggt	cccgcctcac	agtggctgac	atccgcaaac	300
agaagtggcc	cttcttcaag	gccaccccag	aggagaagct	caagctggag	gacttctttg	360
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gccacatgaa	tgcctccac	ctggggtcac	aggccaaccg	cctcttctac	ctggccttgc	480
cccgcaccgt	ctacgaggcc	gtcaccaaga	acattcacga	gtcctgcatg	agccagatag	540
gctggaaccg	catcatcgtg	gagaagccct	tccggaggga	cctgcagagc	tctgaccggc	600
tgtccaacca	catctcctcc	ctgttccgtg	aggaccagat	ctaccgcac	gaccactacc	660
tgggcaagga	gatgggtgcag	aacctcatgg	tgtgagatt	tgccaacagg	atcttcggcc	720
ccatctggaa	ccgggacaac	atcgccctcg	ttatcctcac	cttcaaggag	ccctttggca	780
ctgaggggtcg	cgggggctat	ttcgatgaat	ttgggatcat	ccgggacgtg	atgcagaacc	840
acctactgca	gatgctgtgt	ctggtggcca	tggagaagcc	cgctccacc	aactcagatg	900
acgtccgtga	tgagaagggtc	aagggtgttg	aatgcatctc	agaggtgcag	gccaacaatg	960
tggctcctggg	ccagtacgtg	gggaaccccg	atggagaggg	cgaggccacc	aaagggtacc	1020
tggacgaccc	cacggtgccc	cgcggttcca	ccaccgccac	ttttgcagcc	gtcgtcctct	1080
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acgagcgcaa	ggccgagggtg	aggctgcagt	tccatgatgt	ggccggcgac	atcttcacc	1200
agcagtgcaa	gcgcgaacgag	ctgggtgatcc	gcgtgcagcc	caacgaggcc	gtgtacacca	1260
agatgatgac	caagaagccg	ggcatgttct	tcaacccga	ggagtccgag	ctggacctga	1320
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caacagaagg	aaggaggagg	gcgcccattc	gtctgtccca	gagcttattg	gccactgggt	1920
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atggccaccc	cgtgccaccc	gtaggcagcc	tctctgctat	aagaaaagca	gacgcagcag	2160
ctgggacccc	tcccaacctc	aatgcctgc	cattaaatcc	gcaaacagcc	aaaaaaaaa	2220
aaaaaaaaa						2230



Homo sapiens zinc finger protein 165 (Zpf165) mRNA, complete cds.

ggccccggat	ccgcgcgggt	ttggggatcc	anatgtccag	ccccgtgtcc	ccctccaaac	60
atccagtcct	tctcatattg	cctttgaaat	tagcagcctc	tgggtgacca	gaccttggcc	120
ctcagaggaa	tcccgganaa	aggtanaacc	agcttcgcgt	tgggaacgca	ggcgcgctta	180
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ggagcgctga	gggcttggtg	gcgtgggggtg	ggggctgtcc	tactgatcct	gaatttgggt	300
cactggtaan	angagttgcc	cattccancc	aggtggaacg	gggaggggta	gccacatgtc	360
tcagatctgc	cattgtctgc	gaaaagaaac	tgctgcgagg	accatcccca	atccccctgtc	420
tcccttgga	agagtaaccg	ccgttttgta	ggacacttgg	ggacaacccc	gcttgccttg	480
aaattttattg	acacggtaaa	tagtatttcc	tgtgtgccga	ggatgcagtt	aaaccaacac	540
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aagtaaatgc	tgaggaaatg	gcacaatatg	aaaaatatta	aataaaaaat	aaatattggg	2100
caagtgggaag	actgaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2150

602326096F1 NIH\_MGC\_90 Homo sapiens cDNA clone IMAGE:4414319 5', Mrna

tatctgttca	atgaaaataa	ggtatgaccc	aagtttttac	ctagtctgac	tagaagtatt	60
ccacttcaag	gtctgaagta	ggactttttac	cttaaaaaaac	aacaacaaac	aaaactatca	120
cacaggatag	ataagaagat	tggttaaaca	gttttgtgta	gatctttttg	gtgctgaact	180
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ttttttaaac	tttatttgct	gttaaatctt	gtgaagtttc	agttatctaa	aataaatata	300
cacaaatatg	aaatataatg	tttcagattg	caaggtaata	tgtaatagta	gtgtttgtaa	360
gatactcttg	tctaataatta	actagtagta	ttttgatttg	tacagtcata	atttgttaaa	420
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aatacctttg	aaataaagtt	ttagagaaat	gtttcagaaa	aaaaaatata	atacatgtag	720
atacgagaca	aaaaaaaaaa	aaaatgaaaa	aaaataaaaa	aaaaagagag	ggggacagat	780
atatattcag	gggagagaaa	aaagacagat	tatagaaagg	cccaaaataa	aaaaagaaga	840
aggggtataa	atcggaaaaa	tgtgtgtaag	acaactgtgg	agaaaaac		887

Human prostaglandin endoperoxide synthase mRNA, complete cds.

gcgccatgag	ccggagtctc	ttgctccggg	tcttgcgtgt	cctgctcctg	ctcccgccgc	60
tccccgtcct	gctcgcggac	ccagggggcg	ccacgccagt	gaatccctgt	tgttactatc	120
catgccagca	ccagggcatc	tgtgtccgct	tcggccttga	ccgtaccag	tgtgactgca	180
cccgcacggg	ctattccggc	cccaactgca	ccatccctgg	cctgtggacc	tggctccgga	240
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gggagtttgt	caatgccacc	ttcatccgag	agatgctcat	gcgcctggta	ctcacagtgc	360
gctccaacct	tatccccagt	ccccccacct	acaactcagc	acatgactac	atcagctggg	420
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tctttgcaca	acacttcacc	caccagttct	tcaaaacttc	tggcaagatg	ggctcctggc	660
tcaccaaggc	cttggggccat	ggggtagacc	tcggccacat	ttatggagac	aatctggagc	720
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agagtatgat	agagattggg	gctccctttt	ccctcaaggg	tctcctaggg	aatcccatct	1620
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ccaacaagaa	tgcattccct	gaatctgtgc	ctgcactgag	agggcaagga	agtgggggtg	2400
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attcacgcca	ttggttgga	gctaccagag	ctctatcccc	atccagggtc	tgactcatgg	2520
cagctgtttc	tcatgaagct	aataaaattc	gccc			2554

## Human mRNA for tyrosine hydroxylase type 3

tccacactga	gccatgcccc	cccccgacgc	caccacgcca	caggccaagg	gcttccgcag	60
ggccgtgtct	gagctggacg	ccaagcaggc	agaggccatc	atgggcgccc	cggggcccag	120
cctcacaggc	tctccgtggc	ctggaactgc	agccccagct	gcatactaca	ccccaccccc	180
aagggtcccc	cggttcattg	ggcgcaggca	gagcctcatc	gaggacgccc	gcaaggagcg	240
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gtacttcgtg	cgcttcgagg	tgcgcgagg	ggacctggcc	gccctgctca	gtggtgtgcg	540
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agtgtcagag	ctggacaagt	gtcatcacct	ggtcaccaag	ttcgaccttg	acctggactt	660
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agctgtgtgt	gcccgtgggt	aggttgtgct	gcctgtgggt	aggctcctgt	ctggctccca	1800
gggtcctggg	ggctgctgca	ctgccctccg	cccttccctg	acactgtctg	ctgccccaat	1860
caccgtcaca	ataaaagaaa	ctgtggtctc	t			1891

## Homo sapiens mRNA; cDNA DKFZp566A093 (from clone DKFZp566A093); complete

agtctggggt	ggactggcgg	ccgtggagtt	tgtgacatac	gagggtgacac	ccctcgagtc	60
acttcccttc	aactccagct	ggagcgccct	cttggctttg	ggttcgttct	gcagccttcg	120
ccccgtccct	agcctcagg	ccggactccg	gcgcagagcc	cagcccagcg	cagcctgcca	180
gcagccaccc	agccgcccag	ccgcccagcc	ccgcacgaaa	cccggccaga	gcttcctagc	240
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cacaattttc	ccatctcctt	cttctcttct	ctgcttggag	gggatgtggg	ttccgttaag	360
ctggacaaca	gtgcctccgg	agccagcgtg	gtggccatag	acaacaagat	cgaacaggcc	420
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gagcagatcc	gagagctggg	ggagaagaac	tcccagctag	agcgtgagaa	cacctgtttg	540
aagaccctgg	caagcccaga	gcagctggag	aagttccagt	cctgtctgag	ccctgaagag	600
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cagaaagctt	gtctgtagcg	ggttttgtga	gagtgaacac	tttccacttt	ttgacacctt	1860
atcctgatgt	atggttccag	gatttggatt	ttgattttcc	aaatgtagct	tgaaatttca	1920
ataaactttg	ctctgttttt	ctaaaaataa	aaaaaaaaaa	aaaaaaaa		1968

Homo sapiens mRNA for Id-1H, complete cds.

ttcagccagt	cgccaagaat	catgaaagtc	gccagtggca	gcaccgccac	cgccgccgcg	60
ggccccacgt	gcgcgctgaa	ggccggcaag	acagcgagcg	gtgcggggcga	ggtgggtgcgc	120
tgtctgtctg	agcagagcgt	ggccatctcg	cgctgccggg	gcgccggggc	gcgcctgcct	180
gccctgctgg	acgagcagca	ggtaaactg	ctgctctacg	acatgaacgg	ctgttactca	240
cgcctcaagg	agctggtgcc	caccctgccc	cagaaccgca	aggtgagcaa	ggtggagatt	300
ctccagcacg	tcatcgacta	catcaggac	cttcagttgg	agctgaactc	ggaatccgaa	360
gttgaaccc	ccggggggccg	agggctgccg	gtccgggctc	cgctcagcac	cctcaacggc	420
gagatcagcg	ccctgacggc	cgaggcggca	tgcgtccctg	cggacgatcg	catcttgtgt	480
cgctgaaggc	cttccccagg	gaccggcgg				509

Homo sapiens mRNA for KIAA1254 protein, partial cds.

cattggcgcc	cgagctgtga	ccgccgccac	tggggcagcc	agcacaatcg	ggcggaggtg	60
gcgctgcccc	ttcagacctg	aaagatgtct	gaaaattcca	gtgacagtga	ttcatcttgt	120
ggttggactg	tcatcagtca	tgaggggtca	gatatagaaa	tgttgaattc	tgtgaccccc	180
actgacagct	gtgagcccg	cccagaatgt	tcatctttag	agcaagagga	gcttcaagca	240
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tatccagctt	tggaggaaac	cagctcaaca	attgaggcag	aggaacaaaa	gatacccgaa	360
gacagtatct	atatttgaac	tgccagtgat	gattctgata	ttgttaccct	tgagccacct	420
aagttagaag	aaatttgaaa	tcaagaagtt	gtcattgttg	aagaagcaca	gagttcagaa	480
gactttaaca	tgggctcttc	ctctagcagc	cagtatactt	tctgtcagcc	agaaactgta	540
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cctgccttta	gacgacgccc	tgctaggaag	aagaccgttt	ctgcttcaga	atctgaagac	660
cggctagttg	gtgaacaaga	aactgaacct	tctaaggagt	tgagtaaacy	tcagttcagt	720
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atagattata	agtcattgaa	agaaaatctt	gcaagggtgt	ggacacttac	tgaagcagag	960
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tcgtggaaga	aacaataaaa	ctacaccatg	agg			6213



Homo sapiens cDNA clone:HEMBA1001328, 3' end, expressed in whole embryo,  
mainly head.

gtagccttta	tttacttaaa	catttatattg	cttctaggaa	ataagcgctt	tcctaatttc	60
aagcaattat	aaaagaactg	ctgttttctt	ccacactcac	ttgccagagg	gtcgaattgg	120
aagtcacata	tatgtctatg	aacggaagtt	aaaagggaaa	ttcaacatga	agatgaaatt	180
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ccaaatatca	ctactgagga	aatgtataaa	ataccacata	gtataaaaatt	acatgttaat	360
ccaatgccag	attttaaata	aaggacctta	agttttcctc	aagggggaag	tttaatgggt	420
cnttcccgnt	ntcanagggc	caaaaanttc	ccaaggaaac	caggtagnaa	gctcttnaaa	480
ggccgcaaaa	t					491

Homo sapiens mRNA; cDNA DKFZp564F1862 (from clone DKFZp564F1862); complete cds

gaggcttctg	aggtggtggc	gccagcggct	acctcctgcc	tgtgaggagc	tggctgagag	60
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atttttaaat	cctgagaaat	gtgtgccttt	gttttcggat	agacttattt	ctttagttct	1860
gcacttttcc	acattatact	ccatatgagt	attaatccta	tggtacata	ttaaaacaag	1920
tgtctcatat	aacattgtat	gtgagagaaa	tataaatatt	tacaacctaa	aaaaaaaaaa	1980
aaaaaaa						

Homo sapiens annexin A1, mRNA (cDNA clone MGC:5095 IMAGE:3459615), complete cds.

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atctctcttt agttctttgc aagaaggtag agataaagac actttttcaa aaatggcaat      60
ggtatcagaa ttcttcaagc aggcctgggt tattgaaaat gaagagcagg aatatgttca      120
aactgtgaag tcatccaaag gtggtcccgg atcagcgggt agcccctatc ctaccttcaa      180
tccatcctcg gatgtcgtcg ccttgcataa ggccataatg gttaaagggt tggatgaagc      240
aaccatcatt gacattctaa ctaagcgaaa caatgcacag cgtcaacaga tcaaagcagc      300
atatctccag gaaacaggaa agcccctgga tgaaacactg aagaaagccc ttacagggtca      360
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tcgtgctgcc atgaagggcc ttggaactga tgaagatact ctaattgaga ttttggcatc      480
aagaactaac aaagaaatca gagacattaa caggggtctac agagaggaac tgaagagaga      540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

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Homo sapiens peroxisomal D3,D2-enoyl-CoA isomerase, mRNA (cDNA clone MGC:3558 IMAGE:3608151), complete cds.

.gagccgcccc	agggatggcg	atggcgctact	tggccttggag	actggcgcg	cgttcgtgtc	60
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tgagagccag	tcagaaggac	tttgaaaatt	caatgaatca	agtgaaactc	ttgaaaaagg	180
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cttgtaacat	gccccaaacca	ggtgtatattg	acttgatcaa	caaggccaaa	tgggacgcat	300
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caactgggtt	tgaactctg	gtggtgacct	ccgaagatgg	catcacaaaag	atcatgttca	480
accggcccaa	aaagaaaaat	gccataaaca	ctgagatgta	tcatgaaatt	atgctgcac	540
ttaaagctgc	cagcaaggat	gactcaatca	tcactgtttt	aacaggaaat	ggtgactatt	600
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aagctaaaaa	taatgccgtt	ttactgaggg	aatttgtggg	ctgttttata	gattttccta	720
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gaccactaca	gcagagtaaa	gcatgtccaa	ggaaggatgt	gctgttacct	ctgatttcca	1260
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atgatatttc	actacagctc	tgatgaataa	aaagttttgt	aaaacaaaaa	aaaaaaaaaa	1380
aaa						1383

Homo sapiens kallikrein 8 (neuropsin/ovasin), transcript variant 1, mRNA  
(cDNA clone MGC:50513 IMAGE:5742016), complete cds.

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa     1377

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Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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cacacagccc	gggaattctc	agaggaggac	gaggaggaga	ccacgtcgca	ggactggggc	300
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Human mRNA for KIAA0188 gene, partial cds.

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aatgtttgtc	acatgtgatg	aagacaaata	tgtatacctg	gcatagagaa	aaatatatac	5100
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ttggatcacc	actgtaagca	cactttattt	gcatttgatc	tgtatttgta	tatgctgatg	5220
caatgataaa	aatcactgta	atacttcatt	gtgttgtact	ggatgcaaag	ctagaaaata	5280
ttgcaataaa	tgagaccgat	gaaagac				5307



Homo sapiens 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble),  
mRNA (cDNA clone IMAGE:2819708), partial cds.

cactcccttt	cctctgctgc	cgctcgggtca	cgcttgtgcc	cgaaggagga	aacagtgaca	60
gacotggaga	ctgcagttct	ctatcccttca	cacagctcct	tcacccatgcc	tggatcactt	120
cctttgaatg	cagaagcttg	ctggccaaaa	gatgtgggaa	ttgttgccct	tgagatctat	180
tttccttctc	aatatgttga	tcaagcagag	ttggaaaaat	atgatggtgt	agatgctgga	240
aagtatacca	ttggccttggg	ccaggccaag	atgggccttct	gcacagatag	agaagatatt	300
aactctcttt	gcatgactgt	ggttcagaat	cttatggaga	gaaataacct	ttcctatgat	360
tgcattgggc	ggctggaagt	tggaacagag	acaatcatcg	acaaatcaaa	gtctgtgaag	420
actaatttga	tgcagctgtt	tgaagagtct	gggaatacag	atatagaagg	aatcgacaca	480
actaatgcat	gctatggagg	cacagctgct	gtcttcaatg	ctgttaactg	gattgagtcc	540
agctcttggg	atggacggta	tgccctggta	gttgcaggag	atattgctgt	atatgccaca	600
ggaaatgcta	gacctacagg	tggagttgga	gcagtagctc	tgctaattgg	gccaaatgct	660
cctttaattt	ttgaaacgagg	gcttcgtggg	acacatatgc	aacatgccta	tgatttttac	720
aagcctgata	tgctatctga	atatcctata	gtagatggaa	aactctccat	acagtgtac	780
ctcagtgc	tagaccgctg	ctactctgtc	tactgcaaaa	agatccatgc	ccagtggcag	840
aaagagggaa	atgataaaga	ttttaccttg	aatgattttg	gcttcatgat	ctttcaactca	900
ccatattgta	aactgggttca	gaaatctcta	gctcggatgt	tgtgaatga	cttccttaaat	960
gaccagaata	gagataaaaa	tagtatctat	agtggcctgg	aagccttttg	ggatgttaaa	1020
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gcagggaaga	gaattggagt	gttttcttat	ggttctgggt	tggctgccac	tctgtactct	1260
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tacgctcggc	gtccactcc	aaatgatgac	actttggatg	aaggagttag	acttgtgcat	1560
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gggatatctg	gggataat	ttaaaggatta	catgttatgt	aaatTTTTAT	gtgactgaca	1800
tggagcctgg	atgactatcg	tgtacttggg	aaagtctctt	tgtctatatt	gctgacatgc	1860
ttcctgttgt	ggtctggcca	atgccccaatg	tactcgaatg	atgttaaggg	ctctgtaaaa	1920
cttcatacct	ctttggccat	ttgtatgcat	gatgtttggt	ttttaaacat	ggtataatga	1980
atttgtgtact	tctgtcagaa	gaaagcagag	gtactaatct	ccaattaaaa	aattttttta	2040
catgtaaaaa	aaaaaaaaaa	aaaaaaaaaa				2068

Homo sapiens S100 calcium binding protein A14, mRNA (cDNA clone MGC:11012  
IMAGE:3640899), complete cds.

```

agatcatgag ccatcagctc ctctggggcc agctatagga caacagaact ctcaccaaag      60
gaccagacac agtgggcacc atgggacagt gtcggtcagc caacgcagag gatgctcagg      120
aattcagtga tgtggagagg gccattgaga cctcatcaa gaactttcac cagtactccg      180
tggaggggtg gaaggagacg ctgacccctt ctgagctacg ggacctggtc acccagcagc      240
tgcccatct catgccgagc aactgtggcc tggagagaaa aattgccaac ctgggcagct      300
gcaatgactc taaactggag ttcaggagtt tctgggagct gattggagaa gcggccaaga      360
gtgtgaagct ggagaggcct gtccgggggc actgagaact ccctctggaa ttcttggggg      420
gtgttgggga gagactgtgg gcctggaaat aaaacttgct tcctctacaa aaaaaaaaaa      480
aaaaaaaaaa

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Homo sapiens cDNA clone:ADBALE09, 5'end, expressed in human adrenal gland.

aaaatatcat	ggattgaacc	tcatcaattg	atagcagtga	gtgactgaag	cttccaaatc	60
aagaaaagcc	ggcaccaaga	acttccattc	taatctagag	ctgaccagtt	tgagctgatt	120
ctctctttga	agagtccttc	ttgattgcag	tgacgtactg	gcatttctga	atggatgtaa	180
gtggagtatt	ttagtctaaa	ggcttttcaa	attacttgaa	ttttttttaa	aattgaggag	240
ctttatttct	atttaccctt	ccatttttgt	atatcaaatt	tccattgtca	ttaaaaactg	300
tatcttgaaa	ctttgtgaac	tgacttgctg	tatttgact	ttgagctctt	gaaataaatg	360
tgatttttgt	gtgattaaaa	caaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	420
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aactcgctcg	ggccgaattg	ggcacgagcc	480
accaccacc	tttggcacag	cccctttgtt	tttacaccaa	taccaagaat	taagggggaa	540
gccttggcag	ttttcacgtt	taaaccagac	tcctttgco	gaaccaacc	cgncaccctg	600
ctggcctccg	tc					612

as43b01.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319913 3',  
mRNA sequence.

tttaaaaaac	aaactgcaaa	atggtattta	tttacattaa	aacatgaatt	gcctgtatac	60
acacaaatat	aagaggaaca	atctgttatg	cacaataact	gtaatattta	gtacatgtta	120
tacacagcag	tatctgttaa	gtcagtggtt	tgagtgaaaa	cacagtacca	aaacattcct	180
gatacaaaat	aagttactca	ttcacatatt	ctaatacatac	aagacactta	atatttttaa	240
agttacatac	ttcaaataac	actggctaaa	tgtacaacta	aagtttatta	atttttttta	300
tgaaaagact	tcagattggt	attcataaat	gatccctttc	aggatgcatt	atctttttaa	360
taaataaact	aaattgactt	caagactatt	tataaatagc	ccactaaaat	atgattgaag	420
acattccttc	atttttattaa	ggtgtagcta	tatactagag	aatatgctca	actactgcct	480
ccaaatccaa	cactgtcatt	ctaattgcaa	atagaattta	ttaaattcca	cttcaggaca	540
tgagatgagc	tgccctgccct	attttgtcaa	tggttccaaa	gcattaacgg	attaagagac	600
tgc						603

Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517  
IMAGE:3356428), complete cds.

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gcgcgtctgt	ccgttcggcc	cggtcggcc	cgaagcatgg	ccggcgtcag	cttcagcggc	120
caccgcctgg	agctgctggc	ggcttacgag	gaggtgatcc	gagaggagag	cgcggccgac	180
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gatgtgcctg	atgcccgc	gtgcgcttgc	gccagccacg	tggctaagggt	ggcagagtcc	420
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gctgtggaaa	tgaagcggat	taaccgagag	cagttctggg	agcaggccaa	gaaggaagaa	660
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caataaatgg	ctcgtgggct	ctggcaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2580
aaaaaaaaaa	aaa					2593

Homo sapiens potentially prenylated protein tyrosine phosphatase hPRL-3  
mRNA, complete cds.

aagagttggg	ttttcttttt	taattatcca	aacagtgggc	agcttcctcc	cccacaccca	60
agtatttgca	caatatttgt	gcggggtatg	ggggtgggtt	tttaaatactc	gtttctcttg	120
gacaagcaca	gggatctcgt	tctcctcatt	ttttgggggt	gtgtggggac	ttctcaggtc	180
gtgtccccag	ccttctctgc	agtcccttct	gccctgccgg	gcccgtcggg	aggcgccatg	240
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accacaacc	ccaccaacgc	cacgctcagc	accttcattg	aggacctgaa	gaagtacggg	360
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tttctcctgt	ctccgtactc	cctctggcgg	cgctggcggtg	gctctg		1006

Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA, complete cds.

gaattcgcaa	agatgctaaa	gagagaactg	gagagagAAC	gactagtaac	tacggcttta	60
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aaaaaaaaa	aaaaaaaaa	aaaaaaaccg	tcgaaaagcg	gccgccaccg	cgtgga	1856

Human channel-like integral membrane protein (CHIP28) mRNA, complete cds.

gcacccggca	gcggtctcag	gccaagcccc	ctgccagcat	ggccagcgag	ttcaagaaga	60
agctcttctg	gagggcagtg	gtggcccgagt	tcttggccac	gacctctttt	gtcttcatca	120
gcatcggttc	tgccctgggc	ttcaaataacc	cgggtggggaa	caaccagacg	gcggtccagg	180
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gcagtggagg	gggcaagctt					1340



Homo sapiens STRA6 isoform 1 mRNA, complete cds, alternatively spliced.

agtcccagac	gggctttttcc	cagagagcta	aaagagaagg	gccagagaat	gtcgtcccag	60
ccagcaggga	accagacctc	ccccggggcc	acagaggact	actcctatgg	cagctggtac	120
atcgatgagc	cccagggggg	cgaggagctc	cagccagagg	gggaagtggc	ctcctgccac	180
accagcatac	cacccggcct	gtaccacgcc	tgcctggcct	cgctgtcaat	ccttgtgctg	240
ctgctcctgg	ccatgctggt	gaggcgccgc	cagctctggc	ctgactgtgt	gcgtggcagg	300
cccggcctgc	ccagccctgt	ggatttcttg	gctggggaca	ggccccgggc	agtgcctgct	360
gctgttttca	tggtcctcct	gagctccctg	tgtttgctgc	tccccgacga	ggacgcattg	420
cccttcctga	ctctcgccctc	agcaccacgc	caagatggga	aaactgaggc	tccaagaggg	480
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gggtgccagg	tctggcagag	ggcagagtgt	ccccagggtg	ccaagatcta	caagtactac	660
tccctgctgg	cctccctgcc	tctcctgctg	ggcctcggat	tctgagcct	ttggtaccct	720
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			2732

## Homo sapiens solute carrier family 7 (cationic amino acid transporter

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601440558F1 NIH\_MGC\_72 Homo sapiens cDNA clone IMAGE:3925214 5', mRNA sequence.

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## Human DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF

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nac79g07.x1 NCI\_CGAP\_Brn23 Homo sapiens cDNA clone IMAGE:3440820 3', mRNA sequence.

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Homo sapiens hypothetical protein MGC11256, mRNA (cDNA clone MGC:60219 IMAGE:6091291), complete cds.

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Homo sapiens cDNA clone IMAGE:3952627, partial cds.

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gaagcgatgc	tttagtggcc	taacccaggg	tcaaatacag	ctctttctag	caaaatcagg	900
cagctctgcc	ccatcggtag	gggcaccgat	tagtctacta	acagccagag	gtccatctag	960
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gcggtttcct	tgggagcttc	tgcctccgtg	ggcctctcag	cccgccccgt	gtggccgccc	1080
gggtgtggct	cagccatgtc	ccctccccag	gtccttcatt	cacccctccc	ctccccacag	1140
tggaattggt	gaagtgtggc	gagtctgtgc	tcgggacaat	aaagcttgtg	acaggtccag	1200
gaccccgcca	aaaaaaaaaa	aa				1222



PT1.1\_07\_C06.r tumor1 Homo sapiens cDNA 5', mRNA sequence.

cngggcntgc	aggaattctg	gnacgagtct	gggtcentgg	tttctctcca	tactcccttc	60
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tttcttttgg	ctttcccttg	ccttcccctt	tctctgtctc	caacactctt	tccccatgtc	180
tttctggctg	tctctatggt	cctcttctct	tatcctnaac	tttctgtcca	ttcgggcctc	240
ctcccnacct	cccacgcccc	agccccctcc	tccttggtct	ccttttcgat	atgccaaacc	300
aattttgggt	cgagtgcatt	taacgagaac	anaacaaaag	gctcataaca	acaagaacgt	360
ttcagaaaaa	aacaaaaagg	gtttaaaaaa	attggtgagg	tcaaaaaagg	caaancanta	420
anggaantta	ngntttcctt	gggaaaaaat	nnantntaaa	aaaanactng	gngggggggc	480
ccgggtaccc	naaatttttg	cccnnatnag	gtgagccggg	nttnncaatt	caacttggcc	540
ggncgmtttt	acaaacgmn	ggagccttgg	gnaaancctt	nnggggggtan	cccanccttn	600
ntncgmcatt	tnaaggaaaa	nttcctntt	tnggccagga	ttggggaaat	tng	653

Homo sapiens cDNA FLJ12940 fis, clone NT2RP2005038, weakly similar to DNA  
NUCLEOTIDYLEXOTRANSFERASE (EC 2.7.7.31).

actcactggg	gcttccttcc	gtctcgctcg	gagtttccct	ctgcgttcgc	tccgcgctgc	60
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tgcagcctcg	catgggtcgc	agccgcggg	ccttctcac	aggcctggcg	cgctccaaag	240
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cagcagagga	ggccgtcagc	tggcaggagc	gcaggatggc	agctgctccc	ccgggttgca	360
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gcctcctcac	cttctgcaga	gcagcctcgg	tgtccaaggc	ccttcccagc	cctgtcacia	660
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cctccacgtc	ccccatatcc	ccaggcacac	tctggcctca	ggtttttgcc	tggccatgtc	2460
atctacctgg	agtgggcctc	ccccttcttc	aggccttgaa	tcaaaagcca	ctttgttagg	2520
cgaggatttc	ccagaccact	catcacatta	aaaaatattt	tg		2562

np60h03.s1 NCI\_CGAP\_Br2 Homo sapiens cDNA clone IMAGE:1130741 3', mRNA  
sequence.

atggtgttcc	ctgagcgggtt	gctgcgggtg	atggatactc	ttctgatact	ggctcttcgt	60
gctataatth	cttttctcac	caagagcagg	tgccctttca	gaagggaatg	ggagtggagg	120
gaggtcaca	gaaacacctc	ggcactgggg	gaaacgtggc	ctagcctctg	gcgacggcga	180
gcagcggccg	gaagcgacgg	gggctgcggg	ccggcgcggg	ttcagaggct	tctttttccg	240
cggacggaga	cactgtacag	cacaacctcg	ggaaaacgcc	aacgccgacg	ccttctccaa	300
caaaagatgg	cctcggactc	aagagtgcgg	ctccagggca	atgcagcccc	aacctaaaga	360
tttagaggcc	tcccgtttcg	ctggccccc	gagccgcca	ccgggactgc	acttccccac	420
cgataaaagg	tggtttccag	ggtacctccc	tcagatggcg	gcggcggctc	ccgacggctt	480
actcaccagc	atccttcgcg	ggcgggggct	ctcggcaagg	cggcctcgtg	ccgaatcc	538

Homo sapiens ALL1-fused gene from chromosome 1q, mRNA (cDNA clone IMAGE:2823316).

ggaagctatg	agggaccctg	tgagtagcca	gtacagttcc	tttcttttct	ggaggatgcc	60
catcccagaa	ctggatctgt	cggagctgga	aggcctgggt	ctgtcagata	cagccaccta	120
caaggtcaaa	gacagcagcg	ttggcaaaat	gatcgggcaa	gcaactgcag	cagaccagga	180
gaaaaaccct	gaaggtgatg	gcctccttga	gtacagcacc	ttcaacttct	ggagagctcc	240
cattgccagc	atccactcct	tcgaactgga	cttgctctaa	ggccaagact	tctctctccc	300
atcaccttgc	cctcattgtc	ttccctctca	agccccctcc	tttccactcc	tttcccattt	360
taatcttggt	ctctccctac	tgtgttggtg	gtgctgatga	atctgccaga	gttgagttct	420
atgtatttat	ttatctatct	gtctactcca	tttctctcaa	aagccctcaa	gtcacaaagt	480
aaatggttca	agcaatggag	tactgggtca	cagggattcc	tcctttcccc	cccaaattat	540
aactccagaa	actaggcctg	actggggaca	cctgagagta	gtatagtagt	gcaaaatgga	600
agactgattt	ttgactctat	tataatcagc	ttcagagatt	ccttaaacct	tcctaatttc	660
ctgctccagg	gcagtaaaca	caaataatttc	ttcaaggggt	gatgaaaacc	tcggaagttt	720
taatttgagg	ttatctgcta	cgaaacagta	tttctaaaag	gctaaagtga	taagtctctt	780
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attttagaag	tagctaattt	cttttctcaa	aagagtgtcc	cttcttcaca	cctactcact	960
ttacaacttt	gctcctaact	gtgggttgaa	aactctagct	aaagaaagt	atcaaactct	1020
aacatgcatt	cctactatta	tgatagtttt	taaggtttca	attcaatctt	ctgaacggca	1080
taagtccat	tttagcctta	cctcctgcat	ttgcaatacg	taatactgat	cagtgggcac	1140
agttcttcag	ctacattgag	accctgaaat	gaacaattat	attctgactc	gacatcttgt	1200
ccccaatcct	tccaaaaata	ttgatggtga	tttgtgctac	catttactcg	tttatttaat	1260
aaagacattc	aatcccagga	aaaaaaaaaa	aaaaaaaaaa	aa		1302

Human mRNA for acetyl-coenzyme A transporter, complete cds.

gaattcgcag	cgagagctgg	aggtgttggg	tccggagacc	agccattcga	tcccgcgcga	60
ggtaggagct	ggtttccatc	ctggcaccac	ggcacacacc	tccagcctcg	agcccggcgc	120
tgctgcccg	gggtctcctt	caggtctctt	gacgccgttc	cagggggcac	ctatccaggc	180
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gaagtgccct	tatcgctctg	agccctgcc	ccatcccgtg	aaccaccgaa	accctggtcc	300
agcgcgacag	ccttggacct	gggactggac	ggatccaaaa	cgctcagcct	cggcccccca	360
cagacggggc	tctgcatcgt	ctctgatatg	tcacccacca	tctcccacaa	ggacagcagc	420
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cttctggggg	ataccggcac	tggcgacttc	ttaaaagccc	cacagagctt	ccgggccgaa	600
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ttcttatgac	cacattgtac	aaatgaatct	gtgttaaaaa	gactatttta	aatgtatttc	2640
ctgcttttgt	aagcattaaa	gatttgaatt	ccaccacact	gg		2682

Homo sapiens SDF2L1 mRNA for SDF2 like protein 1, complete cds.

gctggagcgg	ggccggggcg	atgtggagcg	cgggccggcg	cggggctgcc	tggccggtgc	60
tgttggggct	gctgctggcg	ctgttagtgc	cgggcgggtg	tgccgccaag	accggtgcgg	120
agctcgtgac	ctgcgggtcg	gtgctgaagc	tgtcaatac	gcaccaccgc	gtgcggctgc	180
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cgggtgagca	gtatggaagc	cccatccgtg	ggcagcatga	ggtccacggc	atgcccaagt	600
ccaacacgca	caatacgtgg	aaggccatgg	aaggcatctt	catcaagcct	agtgtggagc	660
cctctgcagg	tcacgatgaa	ctctgagtgt	gtggatggat	gggtggatgg	agggtggcag	720
gtggggcgtc	tgcagggccca	ctcttggcag	agactttggg	tttgtagggg	tcctcaagtg	780
cctttgtgat	taaagaatgt	tggtctatga				810

Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

ccccgggagga	ggaggcgggcg	agaatggcag	cggcgtcgtg	ggcgcggcg	agatgagcgc	60
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aggggggcca	tggggcaggt	cctgccggtc	ttcgcccact	gcaaagaagc	tccgtctaca	180
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gaccagcacc	ctcagcccag	cctgggcgac	agcttgagga	gcatccccag	cctgagccaa	480
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cgcgtggtct	cggcgccac	gcagctgcgg	cacttcttcc	tggtagaaga	cctcgtggat	1500
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gccccaacgc	cggggctttg	catggggccc	aggggaggcc	tgagcttggg	tttacactgt	2160
aataaagact	cctgtggaaa	aaaaaaaaaa				2190

Homo sapiens cDNA: FLJ22209 fis, clone HRC01496.

cgatgatgag	gctgaagaaa	aggaagacaa	agaagaagaa	aaagaaaaag	aagagaaaga	60
gtcgggaagac	aaacctgaaa	ttgaagatgt	tggttctgat	gaagaagaag	aaaagaaacc	120
aaagactaaa	aaagttgaaa	aaactgtctg	ggactgggaa	cttatgaatg	atatcgttca	180
taaactttcc	tattttatgta	tggagcagca	agactgaaac	tggttgaggag	cccatggagg	240
aagaagaagc	agccaaagaa	gagaaagaag	aatctgatga	tgaagctgca	gtagaggaag	300
aagaagaaga	aaagaaacca	aagactaaaa	aagttgaaaa	aactgtctgg	gactgggaac	360
ttatgaatga	tatcgttcat	aaactttcct	at ttatgtat	ggagcagcaa	gactgaaact	420
gttgaggagc	ccatggagga	agaagaagca	gccaaagaag	agaaagaaga	atctgatgat	480
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gagcagcaag	actgaaactg	ttgaggagcc	catggaggaa	gaagaagcag	ccaaagaaga	660
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aagaagcagc	caaagaagag	aaagaagaat	ctgatgatga	agctgcagta	gaggaagaag	900
aagaagaaaa	gaaaccaaag	actaaaaaag	ttgaaaaaac	tgtctgggac	tgggaactta	960
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agaatctgat	gatgaagctg	cagtagagga	agaagaagaa	gaaaagaaac	caaagactaa	1920
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ctattttatgt	atggagcagc	aagactgaaa	ctgttgagga	gcccatggag	gaagaagaag	2040
cagccaaaga	agagaaagaa	gaatctgatg	atgaagctgc	agtagaggaa	aaaaaaaaaa	2100



Homo sapiens UDP-N-acetylglucosamine-2-epimerase mRNA, complete cds.

cggcgtcttg	aactctat	tagaacctct	caaaacgaaa	caagcaaata	atggagaaga	60
atggaaataa	ccgaaagctg	cgggtttgtg	ttgctacttg	taaccgtgca	gattattcta	120
aacttgcccc	gatcatgttt	ggcattaaaa	ccgaacctga	gttctttgaa	cttgatgttg	180
tggtagcttg	ctctcacctg	atagatgact	atggaaatac	atatcgaatg	attgaacaag	240
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tggtaggtgc	agtaggcctg	gccctagtga	agctgccaga	tgtccttaat	cgctgaagc	360
ctgatatcat	gattgttcat	ggagacaggt	ttgatgccct	ggctctggcc	acatctgctg	420
ccttgatgaa	catccgaatc	cttcacattg	aagggtgggga	agtcagtggg	accattgatg	480
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cagagcagca	cctgatatac	atgtgtgagg	accatgatcg	catccttttg	gcaggctgcc	600
cttcctatga	caaactttct	tcagccaaga	acaaagacta	catgagcatc	attcgcatgt	660
ggctagggtga	tgatgtaaaa	tctaaagatt	acattgtttg	actacagcac	cctgtgacca	720
ctgacattaa	tccattccata	aaaatgtttc	aattaacatt	ggatgcactt	atctcattta	780
acaagcggac	cctagtccctg	tttccaaata	ttgacgcagg	gagcaaagag	atggttcgag	840
tgatgcggaa	gaagggcatt	gagcatcatc	ccaactttcg	tgcagttaaa	cacgtcccat	900
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gaatgtttca	cttttgtctc	ctcttccaga	gtcaccttcc	ccactcta		2388

Homo sapiens carcinoembryonic antigen 2a (CGM2) mRNA, complete cds.

gccatgggtt	ccccttcagc	ctgtccatac	agagtgtgca	ttccctggca	ggggctcctg	60
ctcacagcct	cgctttttaac	cttctggaac	ctgccaaaca	gtgccagac	caatattgat	120
ggtgtgccgt	tcaatgtcgc	agaaggggaag	gaggtccttc	tagtagtcca	taatgagtcc	180
cagaatcttt	atggctacaa	ctggtacaaa	gggcaaagg	tgcatgccaa	ctatcgaatt	240
ataggatatg	taaaaaatat	aagtcaagaa	aatgccccag	ggcccgca	caacggtcga	300
gagacaatat	acccaatgg	aaccctgctg	atccagaacg	tcaccacaa	tgacgcagga	360
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tgggtaaaca	atcagagcct	cctggtcagt	cccaggctgc	tgctctccac	tgacaacagg	600
accctcgttc	tactcagcgc	cacaaagaat	gacataggac	cctatgaatg	tgaaatacag	660
aaccagtag	gtgccagccg	cagtgaacca	gtcaccctga	atgtctgcta	tgagtcagta	720
caagcaagtt	cacctgacct	ctcagctggg	accgctgtca	gcatcatgat	tggagtactg	780
gctgggatgg	ctctgatata	gcag				804

yh42a11.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:132380 5', mRNA sequence.

ggttttttaca	agagtaacac	atttaaattt	acagaggtaa	gaatttcctt	ggagaaatag	60
gtgctgggtga	taataggagt	atctttcttt	tccatatcaa	cataattata	ataaataact	120
cacagatttta	aaggcttatt	ttgtgccagg	cattctgctg	agtgcctttac	atacatgtct	180
catgtaatcc	tccaacacgc	tctgcaggga	caggagttaa	tgattatctt	gattttatag	240
gaataggtaa	tgtaatgctc	agagaggggt	aaacatctgg	gttaggtcac	acaggctaata	300
ccaataactta	ggtttttaagg	ttttgaggac	tgggggtgcn	gtgggctcca	cggcctgtaa	360
tccccnggca	ctttggggga	ggcntaggcc	gggmccgggtc	cccgggggtcn	gggggtccng	420
gcccctccgg						430

Homo sapiens immediate early response 3, transcript variant short, mRNA

ctccgctcgg	ctcaccatgt	gtcactctcg	cagctgccac	ccgaccatga	ccatcctgca	60
ggccccgacc	ccggccccct	ccaccatccc	gggaccccg	cggggctccg	gtcctgagat	120
cttcaccttc	gacctctccc	cggagcccg	agcggcccc	gccgggccc	ccagcgcctc	180
tcgcgggcac	cgaaagcgca	gccgcagggt	tctctacct	cgagtgggtc	ggcgccagct	240
gccagtcgag	gaaccgaacc	cagccaaaag	gcttctcttt	ctgctgctca	ccatcgtctt	300
ctgccagatc	ctgatggctg	aagaggggtg	gccggcgccc	ctgcctccag	aggacgcccc	360
taacgccgca	tccctggcgc	ccacccctgt	gtcccccg	ctcgagccct	ttaatctgac	420
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cttctaactg	tgactccccg	cactccccc	aaagaatccg	aaaaaccaca	aagaaacacc	540
aggcgtacct	gggtgcgcgag	agcgtatccc	caactgggac	ttccgaggca	acttgaactc	600
agaacactac	agcggagacg	ccacccgggtg	cttgaggcgg	gaccgaggcg	cacagagacc	660
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tcgttaattt	atttcttatt	gtcctctaatt	aatattttata	tgtattttatg	tacgtcctcc	780
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ccgtgagatc	cttccatctt	cttgaagtgc	cctttagggt	ggctgcgagg	tagagggttg	1140
gggggttggtg	ggctgtcacg	gagcgactgt	cgagatcgcc	tagtatgttc	tgtgaacaca	1200
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7f03b12.x1 NCI\_CGAP\_CLL1 Homo sapiens cDNA clone IMAGE:3293567 3', mRNA sequence.

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acagagctaa	aacctctggt	tttcctttcc	ccagatgtaa	agcctgctag	ctggaactca	420
cagaagattg	gaacaaaaag	ataggagatg	gacacctgng	ggactgctcc	agcacgaagg	480
gaagcgatga	gcatcacaca	gcag				504

human full-length cDNA 3-PRIME end of clone CS0DA009YG15 of NEUROBLASTOMA  
of Homo sapiens (human)

tttttttttt	atttytttaw	cacttccaat	aaactagcat	aagttttatt	acaacatata	60
cagatttgat	acagttttaca	aaaaaaaacta	gattttttcaa	ctaaataaaa	atgtcttttta	120
ascmvtkvaa	gttggccttag	agacatggta	tttttctttc	aaaactgtgt	ttctacaatg	180
atttctaagg	tcccagtcct	gcttgtactt	gacagtyacc	ctcatctaag	caacattaag	240
akctctgata	tcttttagtaa	agaatacaaaa	accctgtktt	tcttaaaaawc	ctaagtctga	300
aagayatgtt	atagccaatc	cagacaaaaca	tttatattta	aacattttata	tttaaacaaa	360
angyctctct	gaacaaatag	cctgcbgaga	taaatacagt	gatttgtttt	cctgatagaa	420
ctatttagca	tgtttaacac	attattctgt	agtttgggaa	taagagtgtt	tcttcccttg	480
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ataatttaaa	aatccatttt	caactggcag	gagtgagga	gaaggccaat	tgcactgatc	720
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acgtgagacc	tctctgaaga	gccaaaaaca	agtggctgtc	tcagtgatmc	atctattcat	960
cctcacaaga	catgcattga	gctttttttat	tcacagattt	atgttagtcc	ttagacccat	1020
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cccagcatac	gkccmcmcaw	tcggcastgc	ggctttcccg	gwtwctttct	gcctkaacca	1200
g						1201

602288121F1 NIH\_MGC\_97 Homo sapiens cDNA clone IMAGE:4373861 5', mRNA sequence.

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Homo sapiens organic anion transporter polypeptide-related protein 1 (OATPRP1) mRNA, complete cds.

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gttatttaag	cctgcgaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2760
aaa						2763

Homo sapiens cDNA: FLJ21243 fis, clone COL01164.

acaagaatga	atgaatgtct	ttgtcttaaa	ttttgccc	gtgttaaaag	atgtaattct	60
cagaatggga	gagaaatgac	tacctttgtt	cctactcttt	tatataatta	tccttttagg	120
gaaagacttg	gtcaactcta	atatatctag	aaggaagact	atatctgggtg	tagactaata	180
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aaagctagcc	aggaatgagc	ctaccacatt	atgtgagaat	atcaaacctc	aggcctgggg	300
ggttgagggg	aagaagatta	ccagaagtgc	aggaaagaga	agtttgagga	acacccttgg	360
cttagcaaca	tgtgataatg	caaagctgtt	ataacctgtt	aatcctacgt	actatgtgtt	420
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ttctgtgggg	ttattaaaa	gcaaaagctt	tatttttttt	aataatgcca	tactccatta	720
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tatagattgc	cagcagagtt	cagaaataga	gcagggtatt	acccgttctt	tgcttggaca	840
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tagtaattat	tttatggaaa	tgttagcaat	tctgtaccaa	ctttgaataa	aatgaaaaat	1860
ttaaaaaaaa	aaaaaaaaaa					1880



ab38f03.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone  
 IMAGE:843101 3' similar to contains Alu repetitive element;; mRNA sequence.

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ggtttcacca	tgttggccag	gctgatctcg	aactcctgac	ctcaggtgat	tcgcccgcct	240
cagcctocca	aagtgctggg	attacaggca	tgagccaccg	tgccggacct	atttaaaaat	300
ctttttgaag	tacagtacta	ataaaactaag	gactacctag	agatcacact	tttagatatt	360
atctatttta	acatagatta	aaaatactgt	ttatatgaaa	attaagotta	aatacacgta	420
taggtaataa	ttattttgcc	catatacaag	taatgtaaac	agag		464

Homo sapiens KPL1 (KPL1) mRNA, complete cds.

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cagggcacag	caaatacgac	ttcattttggc	ttcgagttcc	ccaggcgctg	tagacacaac	1020
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cccttccagt	ctcttcccc	tttctatccc	aatcaccaat	agaaatgcta	acatccctgc	1800
ctggtagcca	ga					1812

Homo sapiens carboxypeptidase, vitellogenic-like, transcript variant 2,  
mRNA (cDNA clone MGC:10029 IMAGE:3888647), complete cds.

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tcacccctta cattgaagct gggaagatcc aaaaaggag agaatgagt ttggtcggcc      360
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cgctctccat gctttacatt gacaatccag tgggcacagg cttcagtttt actgatgata      660
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ttataggggg ctatgcagaa ttctgtacc aaattggctt gttggatgag aagcaaaaaa      960
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gtggaggaca tattttaccc tatgaccagc ctctgagagc ttttgacatg attaatcgat     1560
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                     1772

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Homo sapiens teratocarcinoma-derived growth factor 1, mRNA (cDNA clone MGC:24110 IMAGE:4615416), complete cds.

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gctttcctca	ggcatttcta	cccggctgtg	atggccttgt	gatggatgag	cacctcgtgg	660
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aaaaaaaa						1748

Homo sapiens lipase mRNA, complete cds.

gccgggtcgg	ggcggggcgg	cttttctgtc	ggaggacgcg	aaccggcacg	ctgcgccttt	60
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Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog, mRNA  
(cDNA clone MGC:11074 IMAGE:3688670), complete cds.

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aaaaaaaaaa aaaa                                     1814

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Homo sapiens endoplasmic reticulum lumenal Ca<sup>2+</sup> binding protein grp78 mRNA, complete cds.

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cttgttgggtg	gctcgactcg	aattccaaag	attcagcaac	tgggttaaaga	gttcttcaat	1140
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tttgagatag	atgtgaatgg	tattcttcga	gtgacagctg	aagacaaggg	tacagggaac	1560
aaaaataaga	tcacaatcac	caatgaccag	aatcgctga	cacctgaaga	aatcgaaagg	1620
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aagattgaat	ggctggaaag	ccaccaagat	gctgacattg	aagacttcaa	agctaagaag	1860
aaggaaactgg	aagaaattgt	tcaaccaatt	atcagcaaac	tctatggaag	tgccaggccct	1920
cccccaactg	gtgaagagga	tacagcagaa	aaagatgagt	tgtag		1965

Homo sapiens S100 calcium binding protein A2, mRNA (cDNA clone MGC:3847 IMAGE:3659591), complete cds.

ctccccctcac	cccgggtccag	gatgcccagt	ccccacgaca	cctcccactt	cccactgtgg	60
cctgggtggg	ctcaggggct	gcccttgacc	tggcctagag	ccctccccca	gctgggtggg	120
gagctggcac	tctctgggag	ggagggggct	gggaggggaat	gagtgggaat	ggcaagaggc	180
caggggtttgg	tgggatcagg	ttgaggcagg	tttggtttcc	ttaaaatgcc	aagttggggg	240
ccagtggggc	ccacatataa	atcctcaccc	tgggagcctg	gctgccttgc	tctccttcct	300
gggtctgtct	ctgccacctg	gtctgccaca	gatccatgat	gtgcagttct	ctggagcagg	360
cgctggctgt	gctggtcact	accttcaca	agtactcctg	ccaagagggc	gacaagttca	420
agctgagtaa	gggggaaatg	aaggaacttc	tgcacaagga	gctgcccagc	tttgtggggg	480
agaaagtgga	tgaggagggg	ctgaagaagc	tgatgggcag	cctggatgag	aacagtgacc	540
agcaggtgga	cttccaggag	tatgctgttt	tcttggcact	catcactgtc	atgtgcaatg	600
acttcttcca	gggctgcca	gaccgacct	gaagcagaac	tcttgacttc	ctgcatgga	660
tcttttgggc	ccaggactgt	tgatgccttt	gagttttgta	ttcaataaac	tttttttgtc	720
tgttgaaaaa	aaaaaaaaaa	aaaaaaaaaa				749



wa01c11.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2296820 3', mRNA  
sequence.

acttccttca	ctagttacga	caaaatttaa	gaggaataac	aaatacaaat	tttctgttaa	60
gaacggaaaag	gtgcaaaacta	gcagagtcaa	tactggtaac	cagaaggcac	taatccaaac	120
acataaattt	caaaagctgg	ttatattatg	gaataccata	tatactggcc	tttgccagtt	180
tgggatttct	gcaatagcaa	taagcctcgt	ttctgtttcc	aattataaca	acaaaaagat	240
gagttactaa	tgaacattcc	acttacagaa	gtctaggcta	tggtgataaa	ttgaaaactt	300
atctagacta	ctctgtctaa	gagcaataaa	aagtaaacac	tcttttatcc	agcagcacta	360
ggaaacaggg	tgaatttacc	aagataaatt	aggttgggga	tacctactgc	caacttgtgc	420
ggttgtcgaa	ttcactgtaa	tatgtattcc	tcttattgat	agagctctga	atgtaaacaa	480
ccta						484

Human 150 kDa oxygen-regulated protein ORP150 mRNA, complete cds.

ttgtgaaggg	cgcggggtggg	gggcgctgcc	ggcctcgtgg	gtacgttcgt	gccgcgtctg	60
tcccagagct	ggggccgcag	gagcggaggg	aagaggggca	ctatggcaga	caaagttagg	120
aggcagaggg	cgaggaggcg	agtctgttgg	gccttggtgg	ctgtgctctt	ggcagacctg	180
ttggcactga	gtgatacact	ggcagtgatg	tctgtggacc	tgggcagtga	gtccatgaag	240
gtggccattg	tcaaacctgg	agtgcccatg	gaaattgtct	tgaataagga	atctcggagg	300
aaaacaccgg	tgatcgtgac	cctgaaagaa	aatgaaagat	tctttggaga	cagtgcagca	360
agcatggcga	ttaagaatcc	aaaggctacg	ctacgttact	tccagcacct	cctggggaag	420
caggcagata	acccccatgt	agctctttac	caggcccgtc	tcccggagca	cgagctgact	480
ttcgacccac	agaggcagac	tgtgcacttt	cagatcagct	cgagctgca	gttctcacct	540
gaggaagtgt	tgggcatggt	tctcaattat	tctcgttctc	tagctgaaga	ttttgcagag	600
cagcccatca	aggatgcagt	gatcacctg	ccagtcttct	tcaaccaggc	cgagcgccga	660
gctgtgctgc	aggctgctcg	tatggctggc	ctcaaagtgc	tgcagctcat	caatgacaac	720
acccgacctg	ccctcagcta	tgggtgtctc	cgccggaaag	atattaacac	cactgcccag	780
aatatcatgt	tctatgacat	gggctcaggg	agcaccgtat	gcaccattgt	gacctaccag	840
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gaccgtaccc	tggggggcct	ggagatggag	ctccggcttc	gagaacgcct	ggctgggctt	960
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aagcctgtac	ctctggattg	gcggaagtaa	atctggaagg	attctcactc	gtatttccca	3780
cccctagtgg	ccagaggagg	gaggggcaca	gtgaagaagg	gagcccacca	cctctccgaa	3840
gaggaaagcc	acgtagagtg	gttggcatgg	gggtccagca	tcgtgcaagc	tctgtcataa	3900
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catacctaog	cctagggagc	ccgtcctcca	gtattccgtc	tgtagcagga	gctagggctg	4260
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tttttttttt	gccacattgg	cagagatggg	acctaagggt	cccacccctc	acccacccc	4380
cacctcttct	gtatgtttga	attctttcag	tagctgttga	tgtctggttg	acagggtttga	4440
gtcaaatgt	actttgctcc	attgttaatt	gagaaactgt	ttcaataaaa	tattcttttc	4500
tac						4503

Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds.

aagtccctca	gtccccccagg	agcctccttc	atggaccctgg	ggatcccaag	aggggctgcc	60
tcaacttagg	atgggcaact	gtgtcaagta	tccactgaga	aatctctcaa	ggaaggatag	120
atcactgcga	ccagaggaaa	ttgaagagct	ccgagaggcc	ttcagagaat	tcgacaagga	180
caaggatggc	tacatcaact	gccgggatct	gggcaactgc	atgcgcacca	tgggtacat	240
gcccaccgag	atggagctca	tcgaactgtc	ccagcagatc	aacatgaacc	tgggtggcca	300
tgtagatttt	gatgacttcg	tggagctaata	ggggcctaaa	ctcctggcag	agacagcaga	360
tatgattggt	gtaaaggaac	tgcgagatgc	tttccgagag	tttgacacca	atggtgatgg	420
ggaaataagc	accagtgagc	tgcgagaggc	tatgaggaag	ctcctgggtc	atcaggtggg	480
acaccgagac	atagaggaaa	ttatccgaga	tgtggacctc	aatgggggatg	gacgagtggg	540
ctttgaagag	tttgtccgga	tgatgtcccg	ctgaggccgc	gagggcccct	ccaggactgc	600
caagctccca	aaggcggggc	taagaggagc	tagagcttgc	ctcaccgcgt	gtagccgcgc	660
agagcccagg	atgtactggc	ggatggggcc	tgcctgcacc	ccggggcgga	attc	714

Homo sapiens cDNA FLJ12397 fis, clone MAMMA1002769, weakly similar to Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA.

ataagaggcg	tcat tggcgc	ccgagctgtg	accgcccgcc	ctggggcagc	cagcacaatc	60
gggcggaggt	ggcgctgccc	cttcagacct	gaaagatgtc	tgaaaattcc	agtgcacagt	120
attcatcttg	tggttggaact	gtcatcagtc	atgaggggtc	agatatagaa	atgttgaatt	180
ctgtgacccc	cactgacagc	tgtgagcccc	cccagaatg	ttcatcttta	gagcaagagg	240
agcttcaagc	attgcagata	gagcaaggag	aaagcagcca	aaatggcaca	gtgcttatgg	300
aagaaactgc	ttatccagct	ttggaggaaa	ccagctcaac	aattgaggca	gaggaacaaa	360
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agagttcaga	agactttaac	atgggctctt	cctctagcag	ccagtatact	ttctgtcagc	540
cagaaactgt	at tttcatct	cagcctagt	acgatgaatc	aagtagtgat	gaaaccagta	600
atcagcccag	tcttcgcttt	agacgacgcc	gtgctaggaa	gaagaccgtt	tctgcttcag	660
aatctgaaga	cgggctagtt	gctgaacaag	aaactgaacc	ttctaaggag	ttgagtaaac	720
gtcagttcag	tagtggctct	aataagtggt	ttatacttgc	tttgggtgatt	gcaatcagca	780
tgggatttgg	ccatttctat	ggcacaattc	agattcagaa	gcgtcaacag	ttagtcagaa	840
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ctttatatta	ttcctcagaa	gcattagtta	aaagtctact	aacctgcatt	ttcctgtagt	1560
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cagagcttga	gaaaagtaca	ttgttctgga	atttcatcat	taacatttta	taatcttaca	1800
ctcacttctt	gtctttttgt	gggttcagga	gccctctgac	ttgtgaagaa	tttgctgcc	1860
tcttaagagc	ttgctgactt	gttttcttgt	gaaatttttt	gcacatctga	atatcgtgga	1920
agaaacaata	aaactacacc	atgag				1945

hn58g08.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:3032126 3', mRNA sequence.

cattgcttta	cgtagatagt	aaactatgca	tagtatttta	tttgtaaccc	catgtgttaa	60
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tttgggtattt	taaatagtta	aaaatcaa	ggaaacagtg	tctaaagtca	ctaagataat	180
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acctaaaatg	tacctgtgga	gataaaacaa	gagtgttaagt	tagcaaagta	ttaaataaaa	300
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atatttcact	agtttgaaat	agtcatttca	gtgatttagtc	tgaatttcta	ttgaagccta	540
agcttttg						547

Homo sapiens cDNA FLJ13465 fis, clone PLACE1003493, weakly similar to  
 ENDOTHELIAL CELL MULTIMERIN PRECURSOR.

aagacaacgt	cactagcagt	ttctggagct	acttgccaag	gctgagtgtg	agctgagcct	60
gccccaccac	caagatgatc	ctgagcttgc	tgttcagcct	tggggggccc	ctgggctggg	120
ggctgctggg	ggcatgggcc	caggcttcca	gtactagcct	ctctgatctg	cagagctcca	180
ggacacctgg	ggtctggaag	gcagaggctg	aggacaccag	caaggacccc	gttggacgta	240
actggtgccc	ctacccaatg	tccaagctgg	tcaccttact	agctctttgc	aaaacagaga	300
aattcctcat	ccactcgcag	cagccgtgtc	cgcagggagc	tccagactgc	cagaaagtca	360
aagtcatgta	ccgcatggcc	cacaagccag	tgtaccaggt	caagcagaag	gtgctgacct	420
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tggcaatccc	tgagcctgca	gatcctgggtg	acagccacca	ggaacctcag	gatggaccag	540
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gcgcgctgaa	ggcgcccgcg	gccgaggccc	gccacgaggt	gcgccagctg	cacagcgcct	1860
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tggaggtcat	tcagttgggtc	tgtctcttcc	ctggaaacct	tctgcaaaga	tggtgtggtg	3060
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tcagacagca	cggcctgggc	tccaactctt	caccacaccc	tgtattctac	aacttctttg	3240
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tctgatgatt	ttataagttt	gatagtccct	cctgtgttca	ttctccttcc	tgccaccttg	3720
tgaagatgcc	ttgggttcctc	ttcactgtct	gccatgattg	taagtttcct	gaggcctccc	3780
cagccatgtg	gaacagtgag	tcaattaaac	ctctttcctt	tataaatt		3828



Homo sapiens heat shock 27kDa protein 1, mRNA (cDNA clone MGC:8509  
IMAGE:2822325), complete cds.

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ccgcctgcta aaaatacccg actggaggag cataaaagcg cagccgagcc cagcgccccg      60
cacttttctg agcagacgtc cagagcagag tcagccagca tgaccgagcg ccgcgtcccc      120
ttctcgctcc tgcggggccc cagctgggac cccttcgcgc actggtaccc gcatagccgc      180
ctcttcgacc aggccttcgg gctgcccccg ctgcgggagg agtggtcgca gtggttaggc      240
ggcagcagct ggccaggcta cgtgcgcccc ctgccccccg ccgccatcga gagccccgca      300
gtggccgcgc ccgcctacag ccgcgcgctc agccggcaac tcagcagcgg ggtctcggag      360
atccggcaca ctgcggaccg ctggcgcggtg tccctggatg tcaaccactt cgccccggac      420
gagctgacgg tcaagaccaa ggatggcgtg gtggagatca ccggcaagca cgaggagcgg      480
caggacgagc atggctacat ctcccgggtg ttcacgcgga aatacacgct gccccccggt      540
gtggacccca cccaagtttc ctccctccctg tccctgagg gcacactgac cgtggaggcc      600
cccatgccca agctagccac gcagtccaac gagatcacca tcccagtcac cttcgagtcg      660
cgggcccagc ttggggggccc agaagctgca aaatccgatg agactgccgc caagtaaagc      720
cttagcccgg atgccacccc ctgctgccgc cactggctgt gcctcccccg ccacctgtgt      780
gttcttttga tacatttatc ttctgttttt ctcaaataaa gttcaaagca ccccccaaaa      840
aaaaaaaaa aaaaaaaaaa aaaaaaa                                     867

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Homo sapiens carcinoembryonic antigen (CEM2) mRNA, complete cds.

ccatgggttc	cccttcagcc	tgtccataca	gagtgtgcat	tccctggcag	gggtccctgc	60
tcacagcctc	gcttttaacc	ttctggaacc	tgccaaacag	tgcccagacc	aatattgatg	120
tcgtgccgtt	caatgtcgca	gaaggggaagg	aggtccttct	agtagtccat	aatgagtcctc	180
agaatcttta	tggctacaac	tggtacaaag	gggaaagggg	gcatgccaac	tatcgaatta	240
taggatatgt	aaaaaatata	agtcaagaaa	atgcccaggg	gcccgcacac	aacggtcgag	300
agacaatata	ccccaatgga	accctgctga	tccagaacgt	taccacaat	gacgcaggat	360
tctataccct	acacgttata	aaagaaaatc	ttgtgaatga	agaagtaacc	agacaattct	420
acgtattctc	ggagccaccc	aagccctcca	tcaccagcaa	caacttcaat	ccgggtggaga	480
acaaagatat	tgtgggttta	acctgtcaac	ctgagactca	gaacacaacc	tacctgtggg	540
gggtaaacaa	tcagagcctc	ctggtcagtc	ccaggctgct	gctctccact	gacaacagga	600
ccctcgttct	actcagcgcc	acaaagaatg	acataggacc	ctatgaatgt	gaaatacaga	660
aaccagtggg	tgccagccgc	agtgacccag	tcaccctgaa	tgtccgctat	gagtcagtac	720
aagcaagttc	acctgacctc	tcagctggga	ccgctgtcag	catcatgatt	ggagtactgg	780
ctgggatggc	tctgatatag	cagccttggt	g			811

Homo sapiens keratin 7, mRNA (cDNA clone MGC:3625 IMAGE:3610347), complete cds.

ctcctcctcg	cccgcgcta	ggtccatccc	ggcccagcca	ccatgtccat	ccacttcagc	60
tccccggtat	tcacctcgcg	ctcagccgcc	ttctcgggcc	gcggcgccca	ggtgcgcctg	120
agctccgctc	gccccggcgg	ccttggcagc	agcagcctct	acggcctcgg	cgcctcgcgg	180
ccgcgcgtgg	ccgtgcgctc	tgcctatggg	ggcccgggtg	gcgccggcat	ccgcgaggtc	240
accattaacc	agagcctgct	ggccccgctg	cggctggacg	ccgacccctc	cctccagcgg	300
gtgcgccagg	aggagagcga	gcagatcaag	accctcaaca	acaagtttgc	ctccttcctc	360
gacaaggtgc	ggtttctgga	gcagcagaac	aagctgctgg	agaccaagtg	gacgctgctg	420
caggagcaga	agtcggccaa	gagcagccgc	ctcccagaca	tctttgaggg	ccagattgct	480
ggccttcggg	gtcagcttga	ggcactgcag	gtggatgggg	gccgcctgga	ggcggagctg	540
cggagcatgc	aggatgtggt	ggaggacttc	aagaataagt	acgaagatga	aattaaccgc	600
cgcacagctg	ctgagaatga	gtttgtggtg	ctgaagaagg	atgtggatgc	tgctacatg	660
agcaaggtgg	agctggaggc	caaggtggat	gccctgaatg	atgagatcaa	cttcctcagg	720
accctcaatg	agacggagtt	gacagagctg	cagtcccaga	tctccgacac	atctgtggtg	780
ctgtccatgg	acaacagtcg	ctccctggac	ctggacggca	tcacgcctga	ggtcaaggca	840
cagtatgagg	agatggccaa	atgcagccgg	gctgaggctg	aagcctggta	ccagaccaag	900
tttgagaccc	tccaggccca	ggctgggaag	catggggacg	acctccggaa	tacctcggaat	960
gagatttcag	agatgaaccg	ggccatccag	aggctgcagg	ctgagatcga	caacatcaag	1020
aaccagcgtg	ccaagttgga	ggccgccatt	gccgaggctg	aggagcgtgg	ggagctggcg	1080
ctcaaggatg	ctcgtgccaa	gcaggaggag	ctggaagccg	ccctgcagcg	ggccaagcag	1140
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atcgagatcg	ccacctaccg	caagctgctg	gagggcgagg	agagccggtt	ggctggagat	1260
ggagtgggag	ccgtgaatat	ctctgtgatg	aattccactg	gtggcagtag	cagtggcggg	1320
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gcgggtcctg	ggctcctgaa	ggcttattcc	atccggaccg	catccgccag	tcgcaggagt	1440
gccccgcact	gagccgcctc	ccaccactcc	actcctccag	ccaccacca	caatcacaag	1500
aagattccca	cccttgcttc	ccatgcctgg	tccaagaca	gtgagacagt	ctggaaagtg	1560
atgtcagaat	agcttccaat	aaagcagcct	cattctgagg	cctgagtgat	ccacgtgaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1668

Homo sapiens hxCT mRNA for cystine/glutamate exchanger, complete cds.

cctgtgaaca	ctatagcgct	gagagagaca	gtctgaaagc	agaggaagac	atcgatcagt	60
aacaccaaga	gacaccaaag	ttgaaagttt	tgttttcttt	ccctctgttt	tatttttccc	120
ccgtgtgtcc	ctactatggg	cagaaagcct	gttgtgtcca	ccatctccaa	aggaggttac	180
ctgcaggga	atgttaacgg	gaggctgcct	tccctgggca	acaaggagcc	acctgggcag	240
gagaaagtgc	agctgaagag	gaaagtcact	ttactgaggg	gagtctccat	tatcattggc	300
accatcattg	gagcaggaat	cttcatctct	cctaagggcg	tgctccagaa	cacgggcagc	360
gtgggcatgt	ctctgaccat	ctggacggtg	tgtggggctc	tgtcactatt	tggagctttg	420
tcttatgctg	aattgggaac	aactataaag	aaatctggag	gtcattacac	atataattttg	480
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attcaatgtg	aaatccctga	acttgcgatc	aagctcatta	cagctgtggg	cataaactgt	660
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atatgtatta	tacctgtcac	gcttctagtt	gcttcaacca	ttttataacc	atttttgtac	1920
atattttact	tgaaaatatt	ttaaatggaa	atttaaataa	acatttgata	gtttacataa	1980
taaaaaaaaa	aaaaaaaaaa					2000

Homo sapiens eukaryotic translation elongation factor 1 alpha 2, mRNA (cDNA clone MGC:8362 IMAGE:2819899), complete cds.

cactgcagcc	cccctcgccc	tgagccagag	caccccggg	cccgccagcc	cctcacactc	60
ccagcaaat	gggcaaggag	aagaccaca	tcaacatcgt	ggtcacggc	cacgtggact	120
ccggaagtc	caccaccacg	ggccacctca	tctacaaatg	cggaggtatt	gacaaaagga	180
ccattgagaa	gttcgagaag	gaggcggctg	agatggggaa	gggatccttc	aagtatgcct	240
gggtgctgga	caagctgaag	gcgagcgctg	agcgcgcat	caccatcgac	atctccctct	300
ggaagttcga	gaccaccaag	tactacatca	ccatcatcga	tgcccccgcc	caccgcgact	360
tcatcaagaa	catgatcacg	ggtacatccc	aggcggactg	cgcagtgctg	atcgtggcgg	420
cgggcgtggg	cgagttcgag	gcgggcatct	ccaagaatgg	gcagacgcgg	gagcatgccc	480
tgtggccta	cacgctgggt	gtgaagcagc	tcatcgtggg	cgtgaàcaaa	atggactcca	540
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tcaagaagat	cgggtacaac	ccggccaccg	tgccctttgt	gcccatctcc	ggctggcacg	660
gtgacaacat	gctggagccc	tcccccaaca	tgccgtgggt	caagggctgg	aaggtggagc	720
gtaaggaggg	caacgcaagc	ggcgtgtccc	tgctggaggc	cctggacacc	atcctgcccc	780
ccacgcgccc	cacggacaag	cccctgcgcc	tgccgctgca	ggacgtgtac	aagattggcg	840
gcattggcac	ggtgcccgtg	ggcggggtgg	agaccggcat	cctgcggccg	ggcatggtgg	900
tgacctttgc	gcagtggaac	atcaccactg	aggtgaagtc	agtggagatg	caccacgagg	960
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cgtccgaac	cccgcccg	cccccgccc	gcccccgccc	cgcgcgcgc	tccggcgccc	1560
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gcttccgcgc	ccagcgctcg	ccacgctcag	tgcccgtttt	accaataaac	tgagcgaccc	1740
caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1781

Homo sapiens cDNA clone:HEMBA1000726, 3' end, expressed in whole embryo mainly head.

gagacggagt	ctcgctcttg	tcacccaggt	tgagtgagc	tggcacaatc	tcggctcact	60
gcaacctcca	cctcctgtgt	ttaaagcatt	ctcctgcttc	agcctcctga	gtagctggaa	120
ttacaggccc	tgccaccacc	cccccgctaa	tttttgtcta	tttttttttt	ttagtagaga	180
cgggggtttca	ccatgttggc	tagtctggtc	ttgaactcct	gactgacctc	agacgaacca	240
cccgctcag	actcccaaag	gtcaggatt	acaggcgta	gccaccatac	ctggcctgct	300
cccagttttt	acaagatgtt	aattcccaat	aatctgagag	caatgtgtta	atatgaatat	360
taattcttct	aaatgaatat	tcattcctat	ttcctacttg	tatagggtga	tgaataaaga	420
tccaatagta	taatagaaag	actattagta	agaatgccag	aaggncagtc	tcatgcacct	480
ggtgaaataa	accaaccaac	caacctgaan	tctaaagctt	gngtggcaag	taccactgtg	540
gggaagtgtg	gaattaacnc	tcttttccta	agggtc			576

Homo sapiens MDG1 mRNA, complete cds.

tagctggctg	agaggggact	gggcgcgggc	ggggaaggag	gagcgctagg	tcggtgtacg	60
accgagatta	gggtgcgtgc	cagctccggg	aggccgcggt	gaggggcccg	gcccaagctg	120
ccgacccgag	ccgatcgtca	gggtcgccag	cgcctcagct	ctgtggagga	gcagcagtag	180
tcggagggtg	caggatatta	gaaatggcta	ctccccagtc	aattttcatc	tttgcaatct	240
gcattttaat	gataacagaa	ttaattcttg	cctcaaaaag	ctactatgat	atcttaggtg	300
tgccaaaatc	ggcatcagag	cgccaaatca	agaaggcctt	tcacaagttg	gccatgaagt	360
accaccctga	caaaaataag	agcccgcatg	ctgaagcaaa	attcagagag	attgcagaag	420
catatgaaac	actctcagat	gctaatagac	gaaaagagta	tgatacactt	ggacacagtg	480
cttttactag	tggtaaagga	caaagaggta	gtggaagttc	ttttgagcag	tcatttaact	540
tcaattttga	tgacttattt	aaagactttg	gcttttttgg	tcaaaaccaa	aacactggat	600
ccaagaagcg	ttttgaaaat	catttccaga	cacgccagga	tggtggttcc	agtagacaaa	660
ggcatcattt	ccaagaattt	tcttttggag	gtggattatt	tgatgacatg	tttgaagata	720
tggagaaaat	gttttctttt	agtggttttg	actctaccaa	tcagcataca	gtacagactg	780
aaaatagatt	tcatggatct	agcaagcact	gcaggactgt	cactcaacga	agaggaaata	840
tggttactac	atacactgac	tgttcaggac	agtagttctt	attctattct	cactaaatcc	900
aactggttga	ctcttctca	ttatctttga	tgctaaacaa	ttttctgtga	actattttga	960
caagtgcattg	atttcacttt	aaacaatttg	atatagctat	taaatatatt	taagggtttt	1020
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taaaagttaa	ttgtagattt	aaattgtgtg	aacctaatga	tttttgcagt	gaaaccttta	1260
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gtaaaggaaa	tggtttttatt	gcccatagtc	atttaggctg	gaaaaaagtt	gaaaacttaa	1500
cgaaatattg	ccaagagatt	gttatgtgtt	tggttccagc	ctaaaaatga	ttttgtagtg	1560
ttgaaatcat	agctacttac	atagcttttt	catatttctt	tcttagttgt	tggcactctt	1620
aggtcttagt	atggatttat	gtgtttgtgt	gtgtgtagtt	tatcctctct	ctcatcttta	1680
tctagagatt	gactgatacc	tcattctgtt	tgtaaaacca	gccagtaatt	tctgtgcaac	1740
cttactatgt	gcaatatttt	taaatcctga	gaaatgtgtg	cttttgtttt	cggatagact	1800
tatttcttta	gttctgcact	tttccacatt	atactccata	tgagtattaa	tcctatggat	1860
acatatataa	acaagtgtct	catacaacat	tgtatgtgag	agaaatataa	atattttacaa	1920
cctgaaaaa						1929

Homo sapiens prostate stem cell antigen (PSCA) mRNA, complete cds.

agggagagggc	agtgaccatg	aaggctgtgc	tgcttgccct	gttgatggca	ggcttggccc	60
tgagccagg	cactgccctg	ctgtgctact	cctgcaaagc	ccaggtgagc	aacgaggact	120
gcctgcagg	ggagaactgc	acccagctgg	gggagcagtg	ctggaccgcg	cgcacccgcg	180
cagttggcct	cctgaccgtc	atcagcaaag	gctgcagctt	gaactgcgtg	gatgactcac	240
aggactacta	cgtgggcaag	aagaacatca	cgtgctgtga	caccgacttg	tgcaacgcca	300
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ggtgtggtgc	cccaggcctt	tgtgccactc	ctcacagaac	ctggcccagt	gggagcctgt	480
cctgggttcct	gaggcacatc	ctaacgcaag	tttgaccatg	tatgtttgca	ccccttttcc	540
ccnaaccctg	accttcccat	gggccttttc	caggattccn	accnggcaga	tcagtttttag	600
tganacanat	ccgcntgcag	atggcccctc	caaccntttt	tggtgntggt	tccatggccc	660
agcattttcc	acccttaacc	ctgtgttcag	gcacttnttc	ccccaggaag	ccttccctgc	720
ccacccatt	tatgaattga	gccagggttg	gtccgtggtg	tccccgcac	ccagcagggg	780
acaggcaatc	aggagggccc	agtaaaggct	gagatgaagt	ggactgagta	gaactggagg	840
acaagagttg	acgtgagttc	ctgggagttt	ccagagatgg	ggcctggagg	cctggaggaa	900
ggggccaggc	ctcacatttg	tggggntccc	gaatggcagc	ctgagcacag	cgtaggccct	960
taataaacac	ctgttgata	agccaaaaaa				990



Human arginine-rich protein (ARP) gene, complete cds.

cttcggtcct	gctgtagtgc	cttctgcgcc	aggcccggtt	caatcagcgg	ccacaactgt	60
ctagggctca	gacaccacca	gccaatgagg	gagggcacgt	ggagccgcgt	ctgggctcgc	120
ggctcctgac	caatggggaa	gtggcatgtg	ggagggcgcc	ggggttcccc	ccgccaatgg	180
ggagctacgg	cgcgcggccg	ggacttggag	gcggtgcggc	gcggcgggtg	cggttcagtc	240
ggtcggcggc	ggcagcggag	gaggaggagg	aggaggagga	tgaggaggat	gaggaggatg	300
tgggccacgc	aggggctggc	ggtgcgcgtg	gctctgagcg	tgctgcgggg	cagccggggc	360
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gccacaaaa	tcatcaatga	ggtatcaaag	cctctggccc	accacatccc	tgtggagaag	600
atctgtgaga	agcttaagaa	gaaggacagc	cagatatgtg	agcttaagta	tgacaagcag	660
atcgacctga	gcacagtgga	cctgaagaag	ctccgagtta	aagagctgaa	gaagattctg	720
gatgactggg	gggagacatg	caaaggctgt	gcagaaaagt	ctgactacat	ccggaagata	780
aatgaactga	tgctaaata	tgccccaag	gcagccagtg	caccgaccga	tttgtagtct	840
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cctttttgta	atttattttt	taagtgggct	cctgacaata	ctgtatcaga	tgtgaagcct	960
ggagctttcc	tgatgatgct	ggccctacag	tacccccatg	aggggattcc	cttccttctg	1020
ttgctggtgt	actctaggac	ttcaaagtgt	gtctgggatt	tttttattaa	agaaaaaaaa	1080
tttctagctg	tcaaaaaaaaa	aaa				1103

Homo sapiens interleukin 11 receptor, alpha, transcript variant 1, mRNA  
(cDNA clone MGC:2146 IMAGE:3502059), complete cds.

gggggctgta	gctgggtgaga	ggaagtccta	gaggctatgg	acactctgct	gctgggatca	60
ccgagatgag	cagcagctgc	tcagggctga	gcagggctcct	ggtggccgtg	gctacagccc	120
tggtgtctgc	ctcctcccc	tgccccaggg	cctggggccc	cccaggggtc	cagtatgggc	180
agccaggcag	gtccgtgaag	ctgtgttgtc	ctggagtgc	tgccggggac	ccagtgtcct	240
ggtttcggga	tggggagcca	aagctgctcc	agggacctga	ctctgggcta	gggcatgaac	300
tggtcctggc	ccaggcagac	agcactgatg	agggcacct	catctgccag	accctggatg	360
gtgcacttgg	gggcacagtg	accctgcagc	tgggctaccc	tccagcccgc	cctgttgtct	420
cctgccaaagc	agccgactat	gagaacttct	cttgcaacttg	gagtcaccagc	cagatcagcg	480
gtttacccac	ccgctacctc	acctcctaca	ggaagaagac	agtcctagga	gctgatagcc	540
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gctgtgttgt	ccacgggggt	gagttctgga	gccagtagccg	gattaatgtg	actgagggtga	660
accctagggt	tgccagacaca	cgctgctgg	atgtgagctt	gcagagcatc	ttgcgccctg	720
acccacccca	gggcctgcgg	gtagagtgcag	taccagggtta	cccccgacgc	ctgcgagcca	780
gctggacata	ccctgcctcc	tggccgtgcc	agccccactt	cctgctcaag	ttccgtttgc	840
agtaccgtcc	ggcgagcat	ccagcctgg	ccacgggtgga	gccagctgga	ctggaggagg	900
tgatcacaga	tgctgtggct	gggctgcccc	atgctgtacg	agtcagtgcc	cgggactttc	960
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aggtggacag	ccctgctcct	ccaaggccct	ccctccaacc	acaccctcgg	ctacttgatc	1140
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gactggtggc	tggggccctg	gcactggggc	tctggctgag	gctgagacgg	ggtgggaagg	1260
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ttctgttttg	agcccatttc	tgtgagacc	tgtatttcaa	atttgcagct	gaaaggtgct	1500
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atctgtgtcc	atgtgtgacc	atgtgtctgt	gaggcaggga	acatgtattc	tctgtatgca	1620
tgtatgtagg	tgcttgggga	gtgtgtgtgg	gtccttggct	cttggccttt	ccccttgcag	1680
gggttgtgca	ggtgtgaata	aagagaataa	ggaagttctt	ggaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaacctc	ggg		1783

Homo sapiens mRNA; cDNA DKFZp56402071 (from clone DKFZp56402071); complete cds

gggggcagca	ggccaagggg	gaggtgcgag	cgtggacctg	ggacgggtct	gggcggctct	60
cggtggttgg	cacgggttcg	cacacccatt	caagcggcag	gacgcacttg	tcttagcagt	120
tctcgctgac	cgcgctagct	gcggcttcta	cgctccggca	ctctgagttc	atcagcaaac	180
gccctggcgt	ctgtcctcac	catgcctagc	ctttgggacc	gcttctcgtc	gtcgtccacc	240
tcctcttcgc	cctcgtcctt	gccccgaact	cccaccccag	atcggccgcc	gcgctcagcc	300
tgggggtcgg	cgaccgggga	ggaggggttt	gaccgctcca	cgagcctgga	gagctcggac	360
tgcgagtccc	tggacagcag	caacagtggc	ttcgggcccgg	aggaagacac	ggcttacctg	420
gatgggggtg	cgttgcccga	cttcgagctg	ctcagtgacc	ctgaggatga	acacttgtgt	480
gccaacctga	tgcaagctgt	gcaggagagc	ctggcccagg	cgcggtctggg	ctctcgacgc	540
cctgcgcgcc	tgctgatgcc	tagccagttg	gtaagccagg	tgggcaaaga	actactgcgc	600
ctggcctaca	gcgagccgtg	cggcctgcgg	ggggcgctgc	tggacgtctg	cgtggagcag	660
ggcaagagct	gccacagcgt	gggcccagctg	gcactcgacc	ccagcctgg	gcccaccttc	720
cagctgaccc	tctgtctgcg	cctggactca	cgactctggc	ccaagatcca	ggggctgttt	780
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ctaaagtgga	ggtgggggaa	tagtgtttcc	caggaagctc	attgagttgt	gtgcgggtgg	1080
ctgtgcattg	gggacacata	cccctcagta	ctgtagcatg	aaacaaaggc	ttaggggccca	1140

acaaggcttc	cagctggatg	tgtgtgtagc	atgtacctta	ttatTTTTgt	tactgacagt	1200
taacagtgg	gtgacatcca	gagagcagct	gggctgctcc	cgccccagcc	tggcccaggg	1260
tgaaggaaga	ggcacgtgct	cctcagagca	gccggagggg	agggggaggt	cggaggtcgt	1320
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cgcatgaatg	taagagtagg	aaggggtggg	tgtcagggat	cacttgggat	ctttgacact	1500
tgaaaaatta	cacctggcag	ctgcgtttta	gccttcccc	atcgtgtact	gcagagttga	1560
gctggcaggg	gaggggctga	gaggggtggg	gctggaaccc	cttcccggga	ggagtggcat	1620
ctgggtcttc	catctagaac	tgtttacatg	aagataagat	actcactgtt	catgaataca	1680
cttgatgttc	aagtattaag	acctatgcaa	tatTTTTtac	ttttctaata	aacatgtttg	1740
ttaaaacaaa	aaaaaaaaaa	aaaaaaaaaa				

## Homo sapiens collagen alpha 3 type IX (COL9A3) mRNA, complete cds.

atggccgggc	cgcgcgcgtg	cgcgcgcgtc	ctgctcctgc	tcctcctcgg	gcagcttctg	60
gcggccgccg	gggcgcagag	agtgggactc	cccggccccc	ccggccccc	agggcgccct	120
gggaagcccg	gccaggacgg	cattgacgga	gaagctggtc	ctccaggctc	gcctgggtccc	180
ccgggaccaa	agggggcccc	aggaaagccg	gggaaaccag	gagaggctgg	gctgccggga	240
ctgccgggtg	tggatggtct	gactggacga	gatggacccc	ctggacccaa	gggtgccccct	300
ggggaacggg	gaagtctggg	acccccgggg	ccgcccgggc	tggggggcaa	aggcctccct	360
ggaccccccg	gagaggcagg	agtgagcggc	cccccagggtg	ggatcggcct	ccgcgccccc	420
ccgggacctc	ctggactccc	cggcctccct	gggtccccag	gacctcccg	acccctggga	480
caccagggag	tctccctga	aggcgctact	gaccttcagt	gcccagtat	ctgcccgcca	540
gggtccccag	ggccccctgg	aatgccaggg	ttcaaggagc	ccactggcta	caaaggcgag	600
caggggggaag	tcggaagga	cggcgagaag	ggtagacctg	gccccctgg	gcccgcgggc	660
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gctgtgcct	gacagcatat	ctcaaaaggc	cctagctaat	aaacctgtaa	gcccagcatt	2280
tgagagaagg	tagggtgtgt	atatataaaa	ggttgtgtac	aactccacga	ggtgaaaaat	2340
attcagtaac	ttgtttgcat	agcatttgtg	taaagactat	gatctcatcc	caataaaatg	2400
atatattaaa	tcttcagatt	aatgactggc	tacagagtaa	caaaaaataa	acaatttaat	2460
gtacagtaaa	ttctctccca					2480

Homo sapiens cDNA FLJ20113 fis, clone COL05437.

aattggcaac	ccggaagcgg	tccgtagtgc	ggcgctgttt	aaagatggcg	gcggaggaac	60
ctcagcagca	gaagcaggag	ccgctgggca	gcgactccga	aggtgttaac	tgtctggcct	120
atgatgaagc	catcatggct	cagcaggacc	gaattcagca	agagattgct	gtgcagaacc	180
ctctgggtgc	agagcggctg	gagctctcgg	tcctatacaa	ggagtatgct	gaagatgaca	240
acatctatca	acagaagatc	aaggacctcc	acaaaaagta	ctcgtacatc	cgcaagacca	300
ggcctgacgg	caactgtttc	tatcgggctt	tcggattctc	ccacttggag	gcactgctgg	360
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ccctcagcgt	gtccatccag	gtggagtaca	tggaccgcgg	cgagggcggc	accaccaatc	780
cgcacatctt	ccctgagggc	tccgagccca	aggtctacct	tctctaccgg	cctggacact	840
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ccaggcgcta	gacatgtaca	gagggtttttc	tgtggttgta	aatggtccta	tttcaccccc	960
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gagctccttg	ggggcaggcc	ctcaataaat	gtgaactgct	gctgccgcca	aaaaaaaaaa	1740
aaaaaaa						1747

01763146F1 NIH\_MGC\_20 Homo sapiens cDNA clone IMAGE:4026010 5', mRNA sequence.

aattgatatt	ttttgctgct	tcctcggccc	aggagaaagc	atgtcaggac	agagctggtg	60
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gttgtgcagt	ttcatagatg	ggtcaggagg	tggacaagtg	gggccagaga	tgatggcagt	180
ccagcagcaa	ctccctgtgc	tcccttctct	ttgggcagag	attctatttt	tgacatttgc	240
acaagacagg	tagggaaagg	ggacttgtgg	tagtggacca	tacctgggga	ccaaaagaga	300
cccactgtaa	ttgatgcatt	gtggcccctg	atcttccctg	tctcacactt	cttttctccc	360
atcccggttg	caatctcact	cagacatcac	agtaccaccc	caggggtggc	agtagacaac	420
aaccagaaa	tttagacagg	gatctcttac	ctttggaaaa	taggggttag	gcatgaaggt	480
ggttgtgatt	aagaagatgg	tttgttatta	aatagcatta	aactggaatt	ga	532

Human plasma serine protease (protein C) inhibitor mRNA, complete cds.

aattccggca	gagctccggt	tcctcataga	acaaagaaca	tccaccatgc	agctcttcct	60
cctcttgtgc	ctggtgcttc	tcagccctca	gggggcctcc	cttcaccgcc	accacccccg	120
ggagatgaag	aagagagtcg	aggacctcca	tgtaggtgcc	acggtggccc	ccagcagcag	180
aagggacttt	acctttgacc	tctacagggc	cttggcttcc	gctgccccca	gccagaacat	240
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tttttg						2106

Homo sapiens DKFZP586A0522 protein, mRNA (cDNA clone MGC:5320  
IMAGE:2900478), complete cds.

tgagcaatgg	agcttaccat	ctttatcctg	agactggcca	tttacatcct	gacatttccc	60
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cagcctggcc	aacatggcaa	aaccctacta	aagatacaaa	aaaaaaaaaa	aa	2152



## Homo sapiens calcium binding protein 1 (calbrain), mRNA (cDNA clone

ggtgggtgcc	tgtagaccaa	gctgctcagg	aggctgaggg	aggagaaatca	cttgaatccg	60
ggagtacagag	gttgcagtga	gccaagatca	cgccactgca	ctccagcctg	ggcgacagag	120
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aaaaaaaaa						1868

## Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)

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gcacgtattc	aactggttat	agaaggagct	atgaatattc	atggacaggt	ggacacatgg	360
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Homo sapiens negative growth-regulatory protein MyD118 (MYD118) mRNA,  
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IMAGE:282863 3', mRNA sequence.

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Homo sapiens synaptogyrin 3, mRNA (cDNA clone MGC:20003 IMAGE:4334996), complete cds.

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accgacatgt	cactcttcgc	caccgaacag	ctgagcaccg	gggcgagcca	ggcctacccc	660
ggctatccgg	tgggcagcgg	cgtggagggg	accgagacct	accagagccc	gcccttcacc	720
gagaccctgg	acaccagccc	caaagggtac	cagggtgccc	cctactagcg	gctggcaggg	780
acagaccagg	gctccaaggc	cacccaccca	acgcaggccc	cagggtctcc	gggacctccc	840
ttgggtcctt	ccagctcagt	gccgcggaca	gagtaggtgg	ccgctttgcg	ccatccgggg	900
ccaagagggg	gtggaccgcg	gtgtctgggc	tgcctctgcc	aagttccccc	agtccctcag	960
cacctggccc	caggactgag	gtcctgagaa	ggggatagca	ctgcccagga	cgtgtgtccc	1020
tagcctggaa	tggactgggc	tggggaaggc	tttccctct	tgggccacac	ctgctcactc	1080
tggggttggg	ggtccagctg	ccctctacga	tcagggtgcag	gggctgcca	ggacaaagcg	1140
ggggcagggg	aaagacacca	ccctcgcccc	aagactgggg	atcctggcca	ctgttcccat	1200
cccatgtccc	tgtgggtagt	gactgtctcg	tttctgtcat	ggtggtgcgt	cccgtccgga	1260
gccactctcc	actttctctc	acaggctgct	agaacagccc	agccctgtca	gtgttgtgat	1320
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ccccggcccc	tgcccagggt	tgggtgggtc	tggccaggaa	ggcacaagg	agctgtgggc	1440
caagacacca	gccctgtcct	agcccttcag	taagaccttg	ccaggagagg	agaaggatgc	1500
ctgggtgcca	ggcaagacaa	gcccctcagc	aggagagagg	cccagaggct	ccagctggcc	1560
accgtgcccc	acaagatggc	ccctgtgtgg	ttccctttac	cctggcttcc	tggcccagtc	1620
cctgcctctc	cacctgcacc	ctgcttcctg	gcccagtcct	aggttggagt	ccctctgcat	1680
agctgactac	tcatgcattg	ctcaaagctg	gcttttcaca	ttaagtcaac	accaaactgt	1740
gttgccacat	ttcatcagac	agacacctcc	ctctggagat	gcagttgagt	gacaaccttg	1800
ttacattgta	gcctagacca	attctgtgtg	gatatttaag	tgaacatgtt	tacaattttt	1860
gtatatatca	ctctctccct	ctcctgaaag	accagagatt	gtgtattttc	agtgtcccat	1920
gttccgactg	caccttcttt	acaataaaga	ctgtaactga	gctgactgtg	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaa					1996

Human 14 kd lectin mRNA, complete cds.

cttctgacag	ctgggtgcgcc	tgcccgggaa	catectcctg	gactcaatca	tggcttgtgg	60
tctgggtcgcc	agcaacctga	atctcaaacc	tggagagtgc	cttcgagtgc	gaggcgaggt	120
ggctcctgac	gctaagagct	tcgtgctgaa	cctgggcaaa	gacagcaaca	acctgtgcct	180
gcacttcaac	cctcgcttca	acgcccacgg	cgacgccaac	accatcgtgt	gcaacagcaa	240
ggacggcggg	gcctggggga	ccgagcagcg	ggaggctgtc	tttcccttcc	agcctggaag	300
tgttgcagag	gtgtgcatca	ccttcgacca	ggccaacctg	accgtcaagc	tgccagatgg	360
ataogaattc	aagttcccca	accgcctcaa	cctggaggcc	atcaactaca	tggcagctga	420
cggtgacttc	aagatcaaat	gtgtggcctt	tgactgaaat	cagccagccc	atggccccc	480
ataaaggcag	ctgcctctgc	tcccctg				507

Homo sapiens monocarboxylate transporter 2 (MCT2) mRNA, complete cds.

cgggcgcgcca	ccctgcgcca	gagaccagat	aaagatcaat	cttaagatgt	gatactttcc	60
tgtgaaacct	gaaacaaggt	gatctgggga	accaaagact	ctgggactct	tggtgccaac	120
agagttactc	tgttacttga	atttccacta	gaggagcaga	aatgccacca	atgccaaagt	180
ccccacctgt	gcatccacct	ccagatggag	gatgggggtg	gattgtgggt	ggagcaactt	240
ttatctccat	tggattttcc	tatgcattcc	ccaaagctgt	caccgtattc	ttcaaagaaa	300
ttcagcaaat	attccacact	acctacagt	aaatagcatg	gatttcatcc	attatgctgg	360
ctgttatgta	cgcaggaggt	cctgtaagta	gtgttttggg	gaataaatac	ggcagccggc	420
cgggtggtgat	agcaggaggc	ttattatgct	gtcttggaat	gggtgtggcc	tccttttagta	480
gcagcgtggg	acagctgtac	ctcactatgg	gattcattac	aggttttaggt	ttagccttca	540
acctgcaacc	cgccttaacc	ataattggca	aatacttcta	taggaagcga	cccatggcaa	600
atggattggc	catggcagga	aatcctgttt	tcttaagtcc	attggctcct	ttcaatcagt	660
acctttttaa	tacttttggc	tggaaaaggaa	gcttcctgat	tttgggaagt	ctacttttga	720
atgcctgtgt	ggctgggtcc	ctcatgagac	cccttggaac	caatcaaacc	acttctaagt	780
ctaaaaataa	gactggcaaa	acagaagatg	attcaagccc	aaagaaaatc	aaaacgaaga	840
aatcaacttg	ggaaaaagtt	aataagtatt	tagattttctc	cctttttaag	catagaggat	900
ttctgatata	tctgtctgga	aatgtcatta	tgttcctagg	tttttttgcc	cccattatat	960
tcccggtccc	atatgctaaa	gaccaaggaa	ttgatgagta	ctcggcagct	tttctgctat	1020
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gtcacctctt	gtgccactg	gcacaggact	acacaagcct	ggattatat	gctgtatttt	1200
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gtgcaccaag	attttccagt	gccgtcggac	ttgtcacaat	tgtggagtgt	ggcccagttc	1320
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tcaactatag	attgottgca	aaggaaaagg	aggaggaaaa	tgcaaggcag	aagaccagag	1500
aatctgaacc	cttgagcaaa	tctaaacatt	cggagatgt	taacgtcaaa	gtttcaaagt	1560
cacagagtgt	aacctcagaa	agagaaacta	acatttaaca	agaatcacat	ctctgatttc	1620
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aatttttaaa	tagtttttaa	aaacttactt	atttgggtag	ttaaattttg	agattatgca	1800
tagaaagaat	ccatgctata	ggtttatttc	catacctgac	tctgggtgtg	gtgggttaaaa	1860
tactaatatt	aaagtcttcc	agtgaacttc	ggtcttgggt	atatgga		1907

H.sapiens mRNA for gonadotropin-releasing hormone receptor, splice variant.

atggcaaaca	gtgcctctcc	tgaacagaat	caaaatcact	gttcagccat	caacaacagc	60
atcccaactga	tgcagggcaa	cctcccccact	ctgaccttgt	ctggaaagat	ccgagtgacg	120
gttacttttct	tccttttttct	gctctctgcg	acctttaatg	cttcttttctt	gttgaaactt	180
cagaagtgga	cacagaagaa	agagaaaggg	aaaaagctct	caagaatgaa	gctgctctta	240
aaacatctga	ccttagccaa	cctgttgagg	actctgattg	tcatgccact	ggatgggatg	300
tggaacatta	cagtccaatg	gtatgctgga	gagttactct	gcaaagttct	cagttatcta	360
aagcttttct	ccatgtatgc	cccagccttc	atgatgggtg	tgatcagcct	ggaccgctcc	420
ctggctatca	cgaggccctt	agctttgaaa	agcaacagca	aagtcggaca	gtccatgggt	480
ggcctggcct	ggatcctcag	tagtgtcttt	gcaggaccac	agctgcctct	tcatcatccc	540
tcttttcatc	atgctgatct	gcaatgcaaa	aatcatcttc	accctgacac	gggtccttca	600
tcaggacccc	cacgaactac	aactgaatca	gtccaagaac	aatataccaa	gagcacggct	660
gaagactcta	aaaatgacgg	ttgcatttgc	cacttcattt	actgtctgct	ggactcccta	720
ctatgtccta	ggaatttggt	attggtttga	tcctgaaatg	ttaaacaggt	tgtcagaccc	780
agtaaatcac	ttcttctttc	tctttgcctt	tttaaaccac	tgctttgatc	cacttatcta	840
tggatatttt	tctctgtga					859

Homo sapiens midline 1 (MID1) mRNA, complete cds.

cttttttttg	ccggggccgca	tgaatccggc	cagcccaccc	tgcttgaagg	acctacaggt	60
ttgtctcttc	cagatcagaa	ctgaggaaca	aaaaccccca	tcctgggaaa	aatggggaag	120
ctgatttcgc	cgggttgctt	ttgtcttgcg	ggctcctgtc	gggttcgggtg	tttccgctct	180
gaagactgcg	acgcgggctc	cgatgcagct	cgctccctgc	cggatgggtc	atgggattct	240
aaacatgagg	cagatagctg	atcagcttcc	ttgggttttg	ctgatgacac	aagagagctt	300
tgctgaaga	tggaaacact	ggagtcagaa	ctgacctgcc	ctatttgtct	ggagctcttt	360
gaggaccctc	ttctactgcc	ctgcgcacac	agcctctgct	tcaactgcgc	ccaccgcatc	420
ctagtatcac	actgtgccac	caacgagctc	gtggagtcca	tcaccgcctt	ccagtgtccc	480
acctgccggc	atgtcatcac	cctcagccag	cgaggtctag	acgggctcaa	gcgcaacgtc	540
accctacaga	acatcatcga	caggttccag	aaagcatcag	tgagcgggcc	caactctccc	600
agcgagaccc	gtcgggagcg	ggcctttgac	gccaacacca	tgacctccgc	cgagaagggtc	660
ctctgccagt	tttgtgacca	ggatcctgcc	caggacgctg	tgaagacctg	tgtcacttgt	720
gaagtatcct	actgtgacga	gtgcctgaaa	gccactcacc	cgaataagaa	gccctttaca	780
ggccatgcac	tgaattcgcc	aattccggac	tctcacatct	gggggctgat	gtgcttggag	840
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tgtaaactgg	tggggcggca	ccgcgatcat	cagggtggcag	ctttgagtga	gcgctatgac	960
aaattgaagc	aaaacttaga	gagtaacctc	accaacctta	ttaagaggaa	cacagaactg	1020
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caagaagcca	aattgacaga	ggagtgtgat	cttctcattg	agatcattca	gcaaagacga	1140
cagattattg	gaaccaagat	caaagaaggg	aagggtgatga	ggcttcgcaa	actggctcag	1200
cagattgcaa	actgcaaaaca	gtgcattgag	cggtcagcat	cactcatctc	ccaagcggaa	1260
cactctctga	aggagaatga	tcatgcgcgt	ttcctacaga	ctgctaagaa	tatcaccgag	1320
agagtctcca	tggcaactgc	atcctcccag	gttctaattc	ctgaaatcaa	cctcaatgac	1380
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tacaccatat	tcaccggaca	agccaacgtc	gttagtctgt	gtaattcggc	tgatagctgg	1620
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aagtacatct	ctatggctca	ggccatcaac	caggcgggca	gccgcagcag	tgagctggg	1740
aagttgaaga	caaacagcca	accattttaa	ctggatccca	aatctgctca	tcgaaaactg	1800
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ggacattgta	taaagtacta	tttgctagat	tcatgcctca	aaagttatta	taaacagacc	3480
tttattaaac	acatcttgaa	agatgtagaa	gtccctctat	agtctagtat	agtttacaat	3540
agagttgtaa	gacccaaaaa	aaaaaaaaaa	aaaaa			3575

Homo sapiens IL-1 receptor accessory protein mRNA, complete cds.

tctcaaagga	tgacacttct	gtggtgtgta	gtgagtctct	acttttatgg	aatcctgcaa	60
agtgatgcct	cagaacgctg	cgatgactgg	ggactagaca	ccatgaggca	aatccaagtg	120
tttgaagatg	agccagctcg	catcaagtgc	ccactctttg	aacacttctt	gaaattcaac	180
tacagcacag	cccattcagc	tggccttact	ctgatctggg	attggactag	gcaggaccgg	240
gaccttgagg	agccaattaa	cttcgcctc	cccgagaacc	gcattagtaa	ggagaaagat	300
gtgctgtggg	tccggcccac	tctcctcaat	gacactggca	actataacctg	catgttaagg	360
aacactacat	attgcagcaa	agttgcattt	cccttggaag	ttgttcaaaa	agacagctgt	420
ttcaattccc	ccatgaaact	cccagtgc	aaactgtata	tagaatatgg	cattcagagg	480
atcacttgct	caaagttaga	tggatatttt	ccttcagtg	tcaaaccgac	tatcacttgg	540
tatatgggct	gttataaaat	acagaatttt	aataatgtaa	taccgaagg	tatgaacttg	600
agtttcctca	ttgccttaat	ttcaaataat	ggaaattaca	catgtgttgt	tacatatcca	660
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aatgaggttt	ggtggaccat	tgatggaaaa	aaacctgatg	acatcactat	tgatgtcacc	900
attaacgaaa	gtataagtca	tagtagaaca	gaagatgaaa	caagaactca	gattttgagc	960
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caagccctcc	tggagctcaa	ggctggccta	gaaaatatgg	cctctcgggg	caacatcaac	1500
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aagacgggtgc	tcacgggtcat	taaatggaaa	ggggaaaaat	ccaagtatcc	acagggcagg	1620
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gatgagcagg	gcctctcgta	ttcatctttg	aaaaatgtat	gaaaggaata	atgaaaagga	1740

## Homo sapiens clone FLB0708 mRNA sequence.

ccaagaggtg	ggaacaatct	aaatgtccaa	cagatgaatg	aattttttaa	aagtgggtata	60
tatacataca	ttgagatatt	attcagcctt	aaaaaagaag	aaaaatcatg	gccggggcgcg	120
gtggctcacg	cctgtaatcc	cagcactttg	ggaggccgag	acgagcgaat	cacgaggtca	180
ggagatggag	accatcctca	ttaacatggg	gaaactctgt	ctctactaaa	aatacaaaaa	240
aattagccgg	gtttagtggg	gggcgcctgt	agtcccagct	actcaggagg	ctgaggcagg	300
agaatggcat	gaacccggga	ggcggagctt	gcagtgaacc	gagatcgcg	cactgcactc	360
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gaaagtaaaa	ttgtggttgc	caatggttca	gggtgaaaaa	aaggaggtta	gtgtttaatg	600
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agtgggttta	ttataaccatt	ctctctctac	ttttgtgtat	gtttgaaatt	ttccatcata	900
aaggagtttt	taaaaaccca	acattatcaa	aatgaaaaat	aatcaataca	agtgtctggat	960
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gcttgtgaat	tctcatctgg	aaacgatccc	acgtcttaga	accttcacca	caaggagtgt	1500
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